

19991105.qrp v01_n630.qrl.991105

Date: Fri, 5 Nov 1999 19:03:07 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1630

QRP-L Digest 1630

Topics covered in this issue include:

- 1) [55218] Re: XCVR: NC40A mods
by Brian Murrey <brian@iquest.net>
- 2) [55219] Re: Enclosures
by kc8aon@juno.com
- 3) [55220] HB: 1-V Challenge -- 2N1303 PNP Germanium transistors
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
- 4) [55221] Re: ELMER100: Ham Radio Horizons Magazine
by Robert McConnell <rmcconne@lightlink.com>
- 5) [55222] maginfyer lamps
by Drbob92031@aol.com
- 6) [55223] RE: maginfyer lamps
by "Kory Hamzeh" <kory@avatar.com>
- 7) [55224] K2 CARRYING CASE
by Mark Gilger <mgilger@concentric.net>
- 8) [55225] RE:Re: Xtal-set radio
by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 9) [55226] Re: OP: Zombie, ARRL TT2
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
- 10) [55227] SSB QRP Roolz!
by Nils R Young <nilsbull@juno.com>
- 11) [55228] HB:saturation - silicon, germanium, FET
by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
- 12) [55229] TT2 "Chassis" Discovery
by K5KW@aol.com
- 13) [55230] FOXHUNT:Team Scores (fwd)
by Bruce Rattray <rattray@gpfn.sk.ca>
- 14) [55231] RE: Enclosures
by "ai2q" <ai2q@ispchannel.com>
- 15) [55232] KITS: magnifier lamps
by PDouglas12@aol.com
- 16) [55233] Re: maginfyer lamps
by Danke Hirasawa <danke@scientist.com>
- 17) [55234] TT2 Photo Gallery Update
by wpc@west.net (ElectronicsUSA.com)
- 18) [55235] Re: K2 CARRYING CASE
by "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
- 19) [55236] Re: maginfyer lamps

- by "Nick Kennedy" <nkennedy@cswnet.com>
- 20) [55237] QRP/ASTRONOMY/...LEONIDS LIVE!
by S LYON <sslyon@worldnet.att.net>
- 21) [55238] N/T+ Fox this Sunday!
by "Matthew Balvanz" <kc0ayg@hotmail.com>
- 22) [55239] Re: K2 CARRYING CASE
by "Dave Benham" <dodgeboy@mindspring.com>
- 23) [55240] N/T fox
by Pete Burbank <plburbank@kih.net>
- 24) [55241] re: Gelcell charging info... THANKS!!!
by maprath@prairienet.org (Mark A. Prather)
- 25) [55242] Re: 100Mw to LZ2RS
by Jim Hale <kj5tf@yahoo.com>
- 26) [55243] HB: 1V challenge
by "Steven Weber" <kd1jv@moose.ncia.net>
- 27) [55244] Re: OP: Zombie, ARRL TT2
by "Paul Harden, NA5N" <na5n@rt66.com>
- 28) [55245] Re: HB: 1V challenge
by Monte Stark <ku7y@dri.edu>
- 29) [55246] Re: HB: 1 V challenge, tricks
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 30) [55247] FOX: Happy Dance in NV
by Monte Stark <ku7y@dri.edu>
- 31) [55248] FOX NT+ Log for Nov 4, 1999 -- K6JMB
by "jmb" <jmb@cruzio.com>
- 32) [55249] QQ Clubhouse Editor Needs Input :-)
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 33) [55250] Re: ELMER300: 2N2/15 Design Lightoff TU e e
by "Sly (9M8SL)" <cqsly@tm.net.my>
- 34) [55251] N/T fox 5 Nov.
by Pete Burbank <plburbank@kih.net>
- 35) [55252] Resistor/Capacitor Kits
by "Kory Hamzeh" <kory@avatar.com>
- 36) [55253] RE: Enclosures
by "Kory Hamzeh" <kory@avatar.com>
- 37) [55254] ZOMBIE: Puff, pant, whew!...giggle
by "J. Medley" <jmedley@ix.netcom.com>
- 38) [55255] Re: Dayton 2000
by Jim_Cadorett@ne.3com.com
- 39) [55256] HB: Magnifier lamp suggestions
by Peter_Simpson@ne.3com.com
- 40) [55257] Re: HB: Magnifier lamp suggestions
by Chris Trask <ctrask@primenet.com>
- 41) [55258] CONTESTS: KB9IUA/0 QRP in SS from Iowa
by "Kevin L. Anderson" <kla@helios.augustana.edu>
- 42) [55259] HB:The Z-Match Antenna Tuner
by Jerry Haigwood <w5jh@swlink.net>
- 43) [55260] Re: HB:The Z-Match Antenna Tuner

- by Jerry Haigwood <w5jh@swlink.net>
- 44) [55261] Re: HB: Resistor/Capacitor Kits
by "John J. McDonough" <jjmcd@tm.net>
- 45) [55262] re:HELP: on output impedance of 1 v. oscillator.
by "Nick Kennedy" <nkennedy@cswnet.com>
- 46) [55263] QRP Drake Transmitter
by "Dan W. Dooley" <dandooley@pipeline.com>
- 47) [55264] Re: HB:The Z-Match Antenna Tuner
by "Hugo Catta" <h.catta@worldnet.att.net>
- 48) [55265] FOXHUNT:Team Scores
by Bruce Rattray <rattray@gpfn.sk.ca>
- 49) [55266] Re:HB:The A-Match Antenna Tuner
by Jerry Haigwood <w5jh@swlink.net>
- 50) [55267] CONTEST: QRP Contest This Weekend
by Ken Newman <N2CQ@citnet.com>
- 51) [55268] K2 Arrived...Twitching Already :-)
by Dave Barrett <DBarrett@creo.com>
- 52) [55269] QRP-L CD Rom
by brian_jones@uk.ibm.com
- 53) [55270] Re: CONTESTS: SS next weekend
by Chris Cartwright Sr <ccart@phideaux.com>
- 54) [55271] CONTESTS: SS this weekend
by Monte Stark <ku7y@dri.edu>
- 55) [55272] FOX:Foxburo QSL service reminder
by Bcieslak@ra.rockwell.com
- 56) [55273] Re: FOX:Foxburo QSL service reminder
by Monte Stark <ku7y@dri.edu>
- 57) [55274] Re:HB: Z match question
by Jerry Haigwood <w5jh@swlink.net>
- 58) [55275] New (for me) antenna: St Louis Vert. I am amazed so far
by WB9MII@aol.com
- 59) [55276] N/T in Sweeps....hope to see you !!!
by osier <osier@northnet.org>
- 60) [55277] LIST: Elecraft Reflector problems?
by Gary L Surrency <gsurrency@juno.com>
- 61) [55278] WTB: OHR SCAF and/or OHR QRP Sprint II
by tbowman@nbn.net
- 62) [55279] Adjustable power QRP rigs?
by Jim Hale <kj5tf@yahoo.com>
- 63) [55280] Re: KITS: magnifier lamps
by "J. W. (Dub) Thornton" <dub@oklahoma.net>
- 64) [55281] RE: LIST: Elecraft Reflector problems?
by "Kory Hamzeh" <kory@avatar.com>
- 65) [55282] Re: Adjustable power QRP rigs?
by Dave Sjolin <sjolin@swbell.net>
- 66) [55283] HB:1v challenge
by "Mel Evans, Registered Arachne User" <mel@euramcom.freemove.co.uk>
- 67) [55284] RE: Adjustable power QRP rigs?

- by Karl Kanalz <KKanalz@excel.com>
- 68) [55285] Sprints and Lessons to learn/ SST-20 Query.
by Ed Loranger <we6w@qsl.net>
- 69) [55286] HELP: QRP-L CD ROM
by Bruce Hopkins - KL7H <kl7h@arrl.net>
- 70) [55287] Re: HB:1v challenge
by Mike Manship <mjmanship@iquest.net>
- 71) [55288] Re: Adjustable power QRP rigs?
by "Ken Hanks" <ken.hanks@po.state.ct.us>
- 72) [55289] RE: WARNING -- another 30m posting
by Adrian Weiss <aweiss@usd.edu>
- 73) [55290] Sweepstakes Software
by "Bruce Prior" <n7rr@hotmail.com>
- 74) [55291] Re: Adjustable power QRP rigs?
by "Carl Zmola" <zmola@campbellsci.com>
- 75) [55292] Re: ELMER100:"Free" ElmeRadio
by Bruce Kizerian <kizerian@ced.utah.edu>
- 76) [55293] Adj. Pwr Out
by tom whalen <wb5qyt@eFortress.com>
- 77) [55294] Re: RFC5 mentioned. de AL7FS
by Ed Loranger <we6w@qsl.net>
- 78) [55295] Re: Solder wick info
by JPD <jdanter@mail.i-america.net>
- 79) [55296] HB:1v Challenge
by "Mel Evans, Registered Arachne User" <mel@euramcom.freemove.co.uk>
- 80) [55297] Baluns/matching toroids etc.
by Ed Loranger <we6w@qsl.net>
- 81) [55298] Re: Baluns/matching toroids etc.
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 82) [55299] Re: HB:1v challenge
by "Steven Weber" <kd1jv@moose.ncia.net>
- 83) [55300] SS Precedence
by "K7FD" <cqdx@teleport.com>
- 84) [55301] MYSTERY OF THE DAY: The "Confidential" Antenna
by "Dick Schneider" <dschneider2@uswest.net>
- 85) [55302] HB: 1 V Challenge
by "Steven Weber" <kd1jv@moose.ncia.net>
- 86) [55303] Re: Adjustable power QRP rigs?
by "Francis Callahan" <colcal@srv.net>
- 87) [55304] Re: SS Precedence
by Monte Stark <ku7y@dri.edu>
- 88) [55305] Re: Adjustable power QRP rigs?
by "William Penhallegon" <w4stx@gte.net>
- 89) [55306] Re: HB:1v Challenge
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
- 90) [55307] Re: Adjustable power QRP rigs?
by Monte Stark <ku7y@dri.edu>
- 91) [55308] Re: Adjustable power QRP rigs?

- by "Nick Yokanovich" <n0ny@toad.net>
- 92) [55309] W1AW in SS
by "Ed Hare, W1RFI" <w1rfi@arrl.net>
- 93) [55310] Re: QRP-L CD Rom
by "John J. McDonough" <jjmcd@tm.net>
- 94) [55311] Re: Sprints and Lessons to learn/ SST-20 Query.
by "David D. Meacham" <ddm@datatamers.com>
- 95) [55312] Oops, Typo.. Sprints and Lessons to learn/ SST-20 Query
by "David D. Meacham" <ddm@datatamers.com>
- 96) [55313] CONTESTS: Re: W1AW in SS
by Monte Stark <ku7y@dri.edu>
- 97) [55314] Re: Adjustable power QRP rigs?
by "Alan Slusher" <aslusher@erols.com>
- 98) [55315] RE: CONTESTS: Re: W1AW in SS
by "NA6E" <mcherry@calweb.com>
- 99) [55316] Art of Electronics
by neil <neil@aade.com>

Date: Thu, 04 Nov 1999 19:01:01 -0500
From: Brian Murrey <brian@iquest.net>
To: k7gt@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [55218] Re: XCVR: NC40A mods
Message-ID: <38221E3D.C3B76D8D@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

WOW!!

This is the post I have been waiting on for a year. Thanks for all the GREAT info Allan. Extremely helpful and straightforward.

72

Allan G Taylor wrote:

>
> Good morning all.
>
> I have just implemented a series of mods to my NC40A based mostly on
> posts by Gary Surrency, AB7MY. I would like to post my experience,
> item by item, to assist others who like more than the nominal 2W that
> the stock 40A gives. In all of the following, please add 20% to the
> power readings as they were taken with a meter known to be 20% off (low)
>

> The rig is a NC40A, Rev. B, with the KC-1 keyer/counter. It was
> originally assembled by Jay, W6JDB.
>
> 1) First mod (motivated by the 40-40 hotrodding article in QRP Power):
> replace the 78L08 with a Zetex ZR78L08C.
> Resting receiver current went from 19.56mA to 18.02mA.
> Coincidentally, power out changed from 1.8W to 1.9W
>
> 2) Replace J309 with J310. Output to 2.0W
>
> 3) Replaced 2N2222A with R/S MPS2222A. No change (still 2.0W)
>
> 4) Replaced 2N3053 with MRF237. Power to 2.6W.
>
> 5) Compressed turns of L8. Power to 2.9W
>
> 6) Replaced MPS2222A, on a lark, with a 2N5109. Maybe 2.95W. Maybe.
>
> I am now in the process of changing out the output filter capacitors
> with silver micas. Also will likely rewind both L7 and L8 with #22 wire.
> And also replace the MRF237 RFC with one wound on a toroid.
>
> Bottom line: with the simple mods of J309 -> J310 , 2N3053 -> MRF237,
> and compressing L8's turns, I have upped the output power about 64%.
> The (corrected) output now is 3.5W. My goal 4+W on a standard 13.8V
> supply.
>
> I am surprised that swapping in the 2N5109 didn't do more. Any
> suggestions related to it? If none, I will pull it and put back in the
> 2N2222A. Are there any other tricks to getting power out up over the
> 4W threshold? I have located in the literature (QRPP mostly) suggested
> output filter values from several sources and will at least one set of
> them.
>
> I will be also replacing the 5V reg chip in the KC1
> with the corresponding 5V Zetex chip. I should be able to get
> resting rx current down to 16.5mA.
>
> A collateral damage issue is that now the sidetone on xmt is so strong
> that 'something' is overloading.
>
> --
> Allan Taylor K7GT k7gt@arrl.net <http://www.qsl.net/k7gt>

=====
KB9BVN -NORCAL #2792 FISTS #5695 QRP-L #1540
39.558 N 86.095 W Johnson Co., Indiana

GRID: EM69WN - NORCAL 40A - Attic Dipole - 1.5w
Proud to be a member of the American Radio Relay League
Foxhunting Team UNDERDOG - Underdog #4
FISTS Century Club #764 - FISTS QRP Century Club #24
=====

Date: Thu, 4 Nov 1999 18:14:20 EST
From: kc8aon@juno.com
To: kory@avatar.com, qrp-1@Lehigh.EDU
Subject: [55219] Re: Enclosures
Message-ID: <19991104.185603.4655.0.kc8aon@juno.com>

Trit the folks at : Sescom, Inc. Email: sescom@sescom.com

They have an extensive line of enclosures, and even have some that are
prepunched for popular connectors ! VERY GOOD STUFF !

72.....DE: KC8AON

On Wed, 3 Nov 1999 19:31:13 -0800 "Kory Hamzeh" <kory@avatar.com> writes:

>
>Hi All,
>
>I've started on my 2n2/40, but I'm making the PCB slightly larger
>(about 6 x
>7 instead of 5 x 7), because I'm adding the tick chip and the a 10
>watt
>final. Believe it or not, I can not find an enclosure to fit the PCB
>and
>leave enough room for the front panel and back panel controls. Radio
>Shack
>(and others) have a 8 x 6 x 3 cabinet, but I need something a little
>larger
>(maybe 8 x 7 or 9 x 7). I've checked the Radio Shack, Tech America,
>Mouser,
>Digi-Key, MPJA with no luck.
>
>Any leads here would be nice. I'm looking for a high quality, nice
>looking
>enclosure.
>
>73,
>Kory
>AC6RN
>

Get the Internet just the way you want it.
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Date: Thu, 04 Nov 1999 19:02:16 -0500
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [55220] HB: 1-V Challenge -- 2N1303 PNP Germanium transistors
Message-ID: <38221E88.5A1E@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Way back in a dusty corner of the ARRL Lab, I found a mess of 2N1303 PNP germanium transistors. If anyone needs a few, send me email and I will what you think you need. I only have about 100, so don't be too greedy.

I couldn't easily find a spec sheet, but the replacement is an ECG102, rated as follows:

ECG102
V_{cer} = 16
I_c = 0.3 A
P_d = 0.15 W
F_t = 2.0 MHz

Looks pretty equivalent to a 2N404. I don't think the Lab will be using them in the near future, so let's put them to good use. I have an idea that may just win the 'test for me, using a different device. :-) Let's just say it should be the SIMPLEST transceiver ever built and let it go at that. :-)

73,
Ed Hare, W1RFI
ARRL Lab

Date: Thu, 04 Nov 1999 18:59:36
From: Robert McConnell <rmcconne@lightlink.com>
To: rules@bellsouth.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [55221] Re: ELMER100: Ham Radio Horizons Magazine
Message-ID: <3.0.6.16.19991104185936.2fcf8220@pop.lightlink.com>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:57 PM 11/4/99 -0600, Randy Jouett wrote:

>

>I still have all my copies of HHR, BTW, and you couldn't get
>them from my dying hands, even if you were using a super-duper,
>atomic-powered crane :^). BTW, if anyone wants their HHR
>magazines to find a good home, please let me know! Mine are
>getting dog-eared and ragged from too much use :^).
>

Randy,

Do you know anyone with a scanner? Image files can be used again
and again without getting dog-eared. They can also be archived in
several forms as well as easily shared with others.

Since several people think those magazines are a valuable resource,
it would be a shame to loose them just because nobody took a few
minutes to preserve them. I will have CD-RW capabilities in a couple
of months and could assemble a collection of images easily enough. I
also have about 4GB of disk storage available to organize them onto.

Bob McConnell
N2SPP

Date: Thu, 4 Nov 1999 19:05:00 EST
From: Drbob92031@aol.com
To: qrp-l@lehigh.edu
Subject: [55222] maginfyer lamps
Message-ID: <0.1d965f69.2553792c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I never use one of these but I know a number of dermtologists and podiatrists
used them. They have a magnifying lens with a flourescent bulb(circular)
around the lens.

They were made by <Luxo>. Call any surgical supply house.

I just looked in my medical supply catalog. There is one made by <Brandt> and
magnifies 1.75X. Uses a circular flourescent bulb and sells for...

\$125.49..Not inexpensive. I donnt recall what Luxo sold for.

Bob...Wa2EAW

Date: Thu, 4 Nov 1999 16:11:55 -0800
From: "Kory Hamzeh" <kory@avatar.com>
To: <Drbob92031@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [55223] RE: maginfyer lamps
Message-ID: <002e01bf2722\$5e370a60\$14ce21c7@tomcat.avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just bought one that uses an incandescent bulb from Fry's yesterday for about \$15.00.

73,
Kory

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Drbob92031@aol.com
> Sent: Thursday, November 04, 1999 4:05 PM
> To: Low Power Amateur Radio Discussion
> Subject: maginfyer lamps
>
>
> I never use one of these but I know a number of dermtologists and
> podiatrists
> used them. They have a magnifying lens with a flourescent bulb(circular)
> around the lens.
> They were made by <Luxo>. Call any surgical supply house.
> I just looked in my medical supply catalog. There is one made by
> <Brandt> and
> magnifies 1.75X. Uses a circular flourescent bulb and sells for...
> \$125.49..Not inexpensive. I donnt recall what Luxo sold for.
> Bob...Wa2EAW
>

Date: Thu, 04 Nov 1999 19:25:15 -0600
From: Mark Gilger <mgilger@concentric.net>
To: qrp-1@Lehigh.EDU
Subject: [55224] K2 CARRYING CASE
Message-ID: <4.1.19991104192146.009b2990@pop3.concentric.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

There have been several posting for breif case style carrying cases for their K2's. I just got back from picking up one from Lowes Home Improvement and got one for \$24.95. It's filled with foam that you can cut out to customize along with dividers that you can custom fit. Think it's going to work out good for the K2.

Mark WB0IQK
K2# 075

Date: Thu, 04 Nov 1999 19:33:29 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [55225] RE:Re: Xtal-set radio
Message-ID: <382225D9.8B3D9628@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If you want to really get with the X-tal set program check out the official site of the Xtal Set Society at

www.midnightscience.com

There club symbol, a schematic of a set taken from Elmer Bucher's 1921 classic "Practical Wireless telegraphy" was a basis for the tatoo on my right shoulder.

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Thu, 04 Nov 1999 19:36:43 -0500
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-1@lehigh.edu
Subject: [55226] Re: OP: Zombie, ARRL TT2
Message-ID: <3822269B.55A5@arrl.net>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joel Malman wrote:

> Ed,

> I just want to thank you for the QRP thrill of a lifetime -- working the
> original TT2 at ARRL HQ !! Working the (new) TT2 on 20 was just as neat.

> For sure, working a rig with an output between 500-800 mw to a 3 element
> beam at 100-120 foot makes for a lot of fun! ... Can the ARRL help me
> explain to my Condo Association why I need a 100 foot tower?

> 72's joel

Hello, Joel,

And let me thank YOU in front of all of our friends for your willingness to come to W1AW and operate. I sure wish 40 M had been available, so we could have gone the whole night, but we were all pretty tired and couldn't bring ourselves to stick around for a 40 M band full of SSB and a 20 M band that had gone REAL long. :-)

Your presence made a big difference, keeping us on one more band, and giving everyone a chance to visit. I REALLY REALLY REALLY appreciated it, Joel. It is a good example of the real spirit of QRP! In fact, I think we all agreed that we had so much fun that we want to do it all over again next year, well... sometime next year -- that CQ WW hurt us in two ways. First, 40 M was a wash and some of those who might have been on the bands may have been in the 'test. Maybe that is just life in the big city, though, because the Zombie and Black Cat theme wouldn't be the same without it happening on the Halloween weekend.

What killed me on Friday night for the Zombie Shuffle was the W1AW bulletins. I wanted to work a lot more stations. I have always meant to do a remote receiver for our HQ club station, W1INF (we can also operate as W1AW from there "legally" too). Maybe I gotta' get it going next year so I can at least hear! If I run the beam here, I will be loud, and in a real quiet location, I should be able to go with a Cushcraft vertical or some such, all done with a remote 900-MHz link. Might be a good application for some high-power 900 MHz spread spectrum. :-)

So, any good ideas on the next Black Cat event? I would like to keep it an ARRL/ARCI joint venture, but we sure can use some good ideas! (Joe Carcia, the W1AW Chief Op said he is always looking for operational opportunities, so other joint ventures also welcome. If they are QRP,

if I can be available, count me in!) As always, if I am still around HQ, and not on a business trip that weekend, I will put W1AW on for the Zombie Shuffle, too. If Paul sees his way clear to keeping the Grand Zombie number 25 open, I will do my very best to honor that by making it an active one.

73,
Ed Hare, W1RFI
ARRL Lab Rat :-)

Date: Thu, 4 Nov 1999 19:20:43 -0500
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu, elecrafft@qth.net
Subject: [55227] SSB QRP Roolz!
Message-ID: <19991104.192341.-918643.0.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Gang,

I've had a couple QSOs with the K2 on SSB & I just put one in the log that I thought was pretty neat.

I usually don't go down to 20m 'cause most of the peeps there are like the 75m net gangs. Big hootie powah & tall towers loaded with multi-element beams. But what the heck. I figured the worse case would be I'd get blown off the air.

So I'm tooning around & find that 14.202-ish was not occupied. I asked if the frequency was in use. I heard a voice ask the same question. (Remember those articles that showed up in QST about three decades back about "delayed echo" stuff? Well, this weren't that.) I asked again. The voice asked again. I shut up.

EA8AST, Juan, in Tenerife, started callin' CQ in Spanish. He snags a YV station & they talk for a minute. Then the YV station signs & I call Juan. Three tries, each with the /QRP on the end. Juan gave me a 57. He was an easy 59 here.

Ain't had a QSO in Spanish in a long time. Maybe next time I'll catch Arnie Coro on the air. Nunca sabes lo que puede pasar.

And that QSO with CP6/LU5AY (I don't remember the call sign exactly) on 17m was cool too. Actually got a reasonable response time out of that

station.

Ain't had this much fun since I was runnin' QRP mobile with the Argonaut strapped into a place under the dash of the much-abused but nominally faithful Honda 600 Sedan. (Bet there ain't but maybe 5 peeps here who will even remember that one.)

Now I have to start playing serious SSB QRP. After all, it works.

73

Nils

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes Sonrientes

<http://home.fiberia.com/wb8ijn> -- WB8IJN --

<http://members.xoom.com/nilsbull>

"In my day you had to FIGHT to have oligarchs! Every day was a STRUGGLE!

-- Comrade Sergei Nikolaevich McTovarishov --

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Date: 04 Nov 1999 20:14:23 -0500

From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>

To: qrp-l;

Subject: [55228] HB:saturation - silicon, germanium, FET

Message-ID: <1999Nov04.201423-0500@[130.113.234.7]>

1 volt challenged gang:

Just put a coupla transistors on a curve tracer. Found an old 2N404 and compared it against a modern MPS2222A.

Was interested in their saturation characteristic, since this will be a limiting factor in a low-voltage power amp stage.

The 2N404 passing -200mA had its collector yank down to within 300 millivolts of its emitter.

The MPS2222A passing 200mA had a similar Vce(sat) of 200 millivolts.

So advantage is silicon over germanium.

How 'bout them MOSfets?

The equivalent ON resistance of that MPS2222A is one ohm. You'd have to use a pretty big FET to beat it. A IRF510 has ON resistance of a little more than half an ohm. But you have to drive the gate to over +5v to get such low ON resistance.

The advantage would seem to be with the big MOSfets, as long as you can drive their monstrous gate capacitances with a decently high voltage. Steve Weber has outlined a really neat way to bootstrap the gate.

But don't count out those silicon bipolars - they're likely easier to drive.

-Glen VE3DNL leinwebe@mcmaster.ca

Date: Thu, 4 Nov 1999 20:14:29 EST
From: K5KW@aol.com
To: qrp-1@lehigh.edu
Subject: [55229] TT2 "Chassis" Discovery
Message-ID: <0.3d967cb6.25538975@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Hi, Gang.

Here's yet another commercially available can that might make a good chassis for the TT2 PCB from the NJ QRP Club.

I have had no luck here in Oklahoma finding a tuna can of the right size with a "pop top", as described by others in previous postings. As Ed Hare and others have done, I went to several grocery stores in a quest for the perfect chassis can, examining every container in the canned meat sections. It turns out that all the stores in these parts had plenty of small snack-size pop-top tins, but no larger ones. Some grocery chains may stock the ones we want, but many obviously do not. Others folks may be having the same luck.

Nevertheless, serendipity strikes again! The XYL served a mexican-style meal tonight. As I sat there munching my taco, Holy Frijole !!, my eyes fell on a can of bean dip; Fritos Bean Dip, Original Flavor, 9 oz. pop top can. It is just the right diameter and it has a convenient "lip" around the top. Oh, joy! And I betcha just about every store on the North American Continent stocks Fritos products, including bean dip.

A couple of slight draw-backs to this particular bean dip can; one

aesthetical the other practical. It is about 20% deeper than the typical tuna tin. And, it has several ridges around the circumference of the can right in the middle. Actually the ridges may be an advantage, if they bite into the washers and nuts on switches, jacks, etc., and hold them in place. The extra depth does provide additional space to vertically mount connections, such as for a vfo.

Speaking of VF0s, I see that Dan's Small Parts is about to offer a kit for the CB-Slider (vfo) that accompanied the original food tin series of QST articles.

As a disclaimer, I own no stock in either the Frito-Lay Companies or Dan's Small Parts. However, I do like bean dip!

72, (burp!)

Don, K5KW

Date: Thu, 4 Nov 1999 19:32:23 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>
Subject: [55230] FOXHUNT:Team Scores (fwd)
Message-ID: <Pine.LNX.3.95.991104191518.14389A-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...DON'T FORGET FOXII, SEND YOUR "FINAL LOG" TO ME AS WELL
AS TO PAUL...that will be a big help...thank you all....

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

Fox Hunt #2 - KU7Y -

20th. MAINE BENGAL BEARS:Total=3	BLUE J's:Total=1
-----	-----
Jim - N5IB <-	John - VE3JC <-
Butch - N5SMQ	Jim - VE6JWA
Bill - NT1R <-	Jeff - VA3JFF
Joel - KE1LA	Jon - TF3JA

DURHAM MORSE MEN:Total=0

Jim - VE3KQN
Ken - VE3ELA
John - VA3JE
Garry - VE3REP

HOUSTON HOUNDS:Total=7 "SWEEP!"

Bill - K5ZTY <-
Bill - W5SB <-
Terry - KQ5U <-
Dan - KK5LD <-

NIGHT OWLS:Total=3

Ed - WE6W <-
Rich - N5JI
Dan - N7CQR <-
Ben - NW7DX <-

RAIDERS OF THE LOST RF:Total=3

Fred - VE3FAL
Earl - VE6EWM <-
Mary - NA6E <-
Bruce - VE5RC <-

SFBA FOGHORNS:Total=2

Bob - N6WG
Conrad - NN6CW
Andreas - N6NU <-
Allan - K7GT <-

SWORDS:Total=4

Rick - WB6JBM
Andy - KC8KFI
Doc - K0EVZ <-
Dan - N8IE <-

TEAM ScQRPion:Total=5

Floyd - NQ7X <-
Gary - AB7MY <-
Conard - WS4S <-
Bob - KI7MN

EMPIRE HOUNDS:Total=0

Dick - K2REB
Kevin - N2TO
Mark - N2JTW
Nick - KF2PH

MANGY MUSHERS:Total=5 "SWEEP!"

Pete - NV4V <-
Paul - VE7CQK <-
Bruce - N7RR <-
Ed - K1VP <-

OKLAHOMA TORNADOS:Total=6 "SWEEP!"

Cliff - AB5UA <-
Royce - KE5TC <-
Don - K5AAR <-
Gody - AC6U <-

SCATTER SHOT GUNNERS:Total=4"SWEEP!"

Mike - K1MG <-
Jack - W5TFB <-
Stan - N6XU <-
Pat - K0PC <-

SWAMP RATS:Total=6

Tom - N1TP <-
Mac - AF4PS <-
Fred - W2XN <-
Paul - AJ4Y

TEAM CRAMP.COM:Total=6"SWEEP!"

OJ - K10J
George - K5VUU <-
Mike - K5NZ <-
Eric - NM5M

TESLA'S TERRORS:Total=7

Wayne - N0EA <-
Dan - N0DT <-
Tim - N0EHW
Joe - W0JOE <-

TEXAS TARANTULAS:Total=6"SWEET!"

Bill - K5LN <-

Dave - N5IW <-

Bob - AF5Z <-

Tom - N5TW <-

UNDERDOGS:Total=5

Roy - AB7CE <-

Dan - N4ROA <-

Brian - KB9BVN

Ron - KI0II <-

WESTERN WRANGLERS:Total=2 "1 WATT"

Randy - K7TQ <-

Chuck - K7QO <-

Steve - WW7Y

Ron - KU7Y

NORTEX Irregulars:Total=0

Doc - W5TB

Joe - KK5NA

Don - N5YAK

Barb - KK5QA

any final changes for the KU7Y fox log please?....72 - Bruce(VE5RC+VE5QRP)

Date: Thu, 4 Nov 1999 20:52:32 -0500

From: "ai2q" <ai2q@ispchannel.com>

To: <kory@avatar.com>

Cc: "Low Power Amateur Radio Discussion (E-mail)" <qrp-1@Lehigh.EDU>

Subject: [55231] RE: Enclosures

Message-ID: <000101bf2730\$6d8af540\$5c32a7d0@ai2q.ispchannel.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Kory:

Have you thought about a good ol' aluminum chassis as an enclosure? That's what I used for my 2N2/40 (I sent a photo to Preston; I am not sure if the pix was ever published). I can scan it in and post it however, if you'd like to see it.

In any case (no pun intended, eh?), I simply inverted a nice aluminum Bud chassis, mounted my circuit board on some standoffs, and then purchased a piece of Lexan as a see-thru cover. It looks snazzy and is scratch resistant, and lets the curious see the innards.

I also mounted my sidetone circuit, PA final filter, and a voltage/current metering circuit on "daughterboards." They're simply soldered at right angles to the main board, at the board edges.

GL es Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Kory Hamzeh
Sent: Wednesday, November 03, 1999 10:31 PM
To: Low Power Amateur Radio Discussion
Subject: Enclosures

Hi All,

I've started on my 2n2/40, but I'm making the PCB slightly larger (about 6 x 7 instead of 5 x 7), because I'm adding the tick chip and the a 10 watt final. Believe it or not, I can not find an enclosure to fit the PCB and leave enough room for the front panel and back panel controls. Radio Shack (and others) have a 8 x 6 x 3 cabinet, but I need something a little larger (maybe 8 x 7 or 9 x 7). I've checked the Radio Shack, Tech America, Mouser, Digi-Key, MPJA with no luck.

Any leads here would be nice. I'm looking for a high quality, nice looking enclosure.

73,

Kory
AC6RN

Date: Thu, 4 Nov 1999 21:26:07 EST
From: PDouglas12@aol.com
To: Drbob92031@aol.com, qrp-1@lehigh.edu
Subject: [55232] KITS: magnifier lamps
Message-ID: <0.8fb3448d.25539a3f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

Guys,

Damark has fluorescent magnifying lamps every catalog for about 40 bucks. I've had mine for about four years, and I couldn't build without it. This topic is another of those come-around-periodically, though it is new to the new guys. Do look at Damark for this one.

72,
Preston WJ2V

Date: Thu, 04 Nov 1999 21:28:20 -0500
From: Danke Hirasawa <danke@scientist.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [55233] Re: maginfyer lamps
Message-ID: <382240C3.A658369B@scientist.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Radio Shack also has one for sale \$13.95.

Kory Hamzeh wrote:

> I just bought one that uses an incandescent bulb from Fry's yesterday for
> about \$15.00.

>

> 73,

> Kory

>

> > -----Original Message-----

> > From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> > Drbob92031@aol.com
> > Sent: Thursday, November 04, 1999 4:05 PM
> > To: Low Power Amateur Radio Discussion
> > Subject: maginfyer lamps
> >
> >
> > I never use one of these but I know a number of dermtologists and
> > podiatrists
> > used them. They have a magnifying lens with a flourescent bulb(circular)
> > around the lens.
> > They were made by <Luxo>. Call any surgical supply house.
> > I just looked in my medical supply catalog. There is one made by
> > <Brandt> and
> > magnifies 1.75X. Uses a circular flourescent bulb and sells for...
> > \$125.49..Not inexpensive. I dontt recall what Luxo sold for.
> > Bob...Wa2EAW
> >

Date: Thu, 4 Nov 1999 18:37:24 -0500
From: wpc@west.net (ElectronicsUSA.com)
To: qrp-1@Lehigh.EDU
Subject: [55234] TT2 Photo Gallery Update
Message-ID: <v01530503b447c73b1c37@[205.254.241.226]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Check out the latest addition to the Tuna Tin Two Gallery!

The TT2 built by Tim, NM8Y

Visit the TT2 Gallery at:

<http://ElectronicsUSA.com/tunatin2.html>

If you have a photo, I invite you to e-mail it to me at:

tuna@ElectronicsUSA.com

72, -John WA6KY0

John Roblin
ElectronicsUSA.com

"Mini-Keys, QRP Accessories, & Other Cool Stuff"

Date: Thu, 4 Nov 1999 21:43:57 -0500
From: "Michael Bower - N4NMR" <bowerm@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [55235] Re: K2 CARRYING CASE
Message-ID: <077101bf2737\$a195d920\$0100a8c0@dadsmachine>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Although I am only thinking about a K2 at the moment (and probably for a long while if my wife has any say on this) and I haven't been following this thread but here' some info:

On a recent trip (weekend), I wanted to take my QRP station to get on the air from a nice park. Looking around to find a case, I took out my old laptop and used that case. It was padded, it had movable pads inside you could "customize" the case, it had lots of pockets. You might try looking at computer laptop cases. If you get them at a computer store, they might be a bit pricey, but perhaps the computer shows might have them cheaper.

Michael - N4NMR

----- Original Message -----

From: Mark Gilger <mgilger@concentric.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Thursday, November 04, 1999 8:25 PM
Subject: K2 CARRYING CASE

> There have been several posting for breif case style carrying cases for
> their K2's. I just got back from picking up one
> from Lowes Home Improvement and got one for \$24.95. It's filled with foam
> that you can cut out to customize along with dividers
> that you can custom fit. Think it's going to work out good for the K2.
>
> Mark WB0IQK
> K2# 075

Date: Thu, 4 Nov 1999 21:02:46 -0600
From: "Nick Kennedy" <nkennedy@cswnet.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [55236] Re: magnifyer lamps
Message-ID: <002301bf273a\$3d3a98a0\$ce7054d8@the-great-c>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

This isn't what the original poster was after, but I really like Jeweler's Loupes for close inspection and critical soldering. I can never get close enough with magnifiers, or can't get my solder under them and be in focal range.

My old Jeweler's Loupe I got at the Dallas Hamfest 5+ years ago has been getting pretty grungy (flux, etc.). So I recently bought one from All Electronics for about \$3.xx. It's neat cause it clips to my glasses and swivels away.

When I swivel it forward I look like one of those Cyborg guys. Cool for Halloween.

72,

Nick, WA5BDU

Date: Fri, 05 Nov 1999 11:12:06 -0500
From: S LYON <sslyon@worldnet.att.net>
To: qrp chat <qrp-l@Lehigh.EDU>
Subject: [55237] QRP/ASTRONOMY/...LEONIDS LIVE!
Message-ID: <382301D6.8FFB1BE2@worldnet.att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

DON'T MISS THIS ONE FOLKS. Could be a major, once-in-a-lifetime experience. note this great site for astronomy bulletins.

72

-s-

Subject: Leonids Live! balloon flight scheduled f
NASA Meteor Balloon Rises Again: NASA scientists and

ham

radio amateurs are teaming up for a weather balloon flight to the stratosphere during the Leonid meteor shower on November 18, 1999. The balloon will transmit a live webcast of the meteor shower from an altitude

of 100,000 ft or more, far above any bad weather or obscuring clouds.

The transmission will include audio from a VLF radio receiver

designed to capture natural radio signals from the meteors.

FULL STORY at

http://science.nasa.gov/newhome/headlines/ast01nov99_1.htm

--

'Seab' Lyon - AA1MY
Beacon NY USA FN-31
QRP-L 574 ARCI 9253

Date: Thu, 4 Nov 1999 21:28:07 -0600
From: "Matthew Balvanz" <kc0ayg@hotmail.com>
To: <qrp-l@lehigh.edu>
Subject: [55238] N/T+ Fox this Sunday!
Message-ID: <19991105032918.39094.qmail@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A heads up for all the hunters out there! I will be the N/T+ fox this Sunday night local time. From 0100-0300Z I'll be operating from the shack of KC0DB0 using his FT-847 (Ok, not really a qrp rig, but it's all he has!) and an inverted vee @ 30ft. Oriented NW/SE. I'll start around 7.110Mhz +/- QRM and QSY as needed.

I've been working on my code speed lately and can get a lot of what people say at 10wpm, but I'll probably start at about 7. And if anyone needs to go slower then that just ask!

Once again that's this Sunday night(local): 11-8-99 0100-0300 UTC
Around 7.110 Mhz. See you then!

Matthew KC0AYG

Ames, IA EN32ea

Date: Thu, 4 Nov 1999 22:14:39 -0500
From: "Dave Benham" <dodgeboy@mindspring.com>
To: <mgilger@concentric.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [55239] Re: K2 CARRYING CASE
Message-ID: <017101bf273b\$e672cc20\$d9e08ad1@hqa.chrysler.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just bought an aluminum "suitcase" from Sam's Club -- the kind of thing you may have seen professional photographers use for carrying lenses. I don't know if Sam's Club is a national or even regional outfit, but they can be found around Michigan's larger cities. It requires a membership to get in.

The inside of this case has a grooved perimeter which accepts boards for compartmentalizing the interior. It comes with foam, which you can customize to your needs. It also has a holster thing that fits in the lid and holds several tools (or whatever) -- when you put the foam in the lid, this thing comes out. It's pretty versatile. Cost was \$29.95 I believe. I got one for my Argonaut II, but it could be used for other portable rigs too -- just rearrange the interior for the day's needs.

72,
Dave K8TRF

----- Original Message -----
From: Mark Gilger <mgilger@concentric.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Thursday, November 04, 1999 8:25 PM
Subject: K2 CARRYING CASE

> There have been several posting for breif case style carrying cases for
> their K2's. I just got back from picking up one
> from Lowes Home Improvement and got one for \$24.95. It's filled with foam
> that you can cut out to customize along with dividers
> that you can custom fit. Think it's going to work out good for the K2.
>
> Mark WB0IQK
> K2# 075

Date: Thu, 04 Nov 1999 22:52:55 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [55240] N/T fox
Message-ID: <3.0.32.19991104225252.0068afbc@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Has anyone worked the N/T fox ? The high end of the 40 meter
CW (HA HA) band is total chaos here in Ky.
Pete NV4V

Date: Thu, 4 Nov 1999 22:02:17 -0600 (CST)
From: maprath@prairienet.org (Mark A. Prather)
To: qrp-l@Lehigh.edu
Subject: [55241] re: Gelcell charging info... THANKS!!!
Message-ID: <199911050402.WAA09567@bluestem.prairienet.org>

WOW!

I want to publicly thank all those who responded to my question
about Gelcell chargers! There are just too many to respond individually!

What a great group, and again thanks!

73,

Mark
WB9HFK

--

* Mark A. Prather - WB9HFK * maprath@prairienet.org *
* QRP-L # 1159 * QRP ARCI # 9472 * mprather@halcomm.com *
* Norcal # 2507 *

Date: Thu, 4 Nov 1999 20:04:44 -0800 (PST)
From: Jim Hale <kj5tf@yahoo.com>

To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [55242] Re: 100Mw to LZ2RS
Message-ID: <19991105040444.11579.rocketmail@web703.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Done like an exert milliwatt'er! Congratulations to you both.

The DX CW contest is this month on the 27/28th. Be sure to have your rigs "milliwatt ready" by then.

You can work plenty of DX with those mW'ts. And the antenna isn't a big deal. Just make sure it's tuned up for good/excellent SWR's. And listen to your mW rig's tone on another rcvr. Be sure it's not chirpy.

Goto the new mW page at ARCI and read all about milliwatting. <http://www.qrparci.org/>

Have fun! de Jim KJ5TF "Sir Jim Lite"

=====

Ham radio/alt energy <http://www.qsl.net/kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
Arkansas QRP Club #2

Do You Yahoo!?
Bid and sell for free at <http://auctions.yahoo.com>

Date: Thu, 4 Nov 1999 23:33:50 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [55243] HB: 1V challenge
Message-ID: <199911050414.XAA28672@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Happy Dance! Happy Dance! I did it, I did it :-)

1.05 watts out, 1.47V supply. Whew, glad that's done, now I can sleep tonight and get some real work done tomorrow :-)

Okay, if you've been following this sogga, Made two major changes.

One, used the RF Parts T-3/4 balun core, which was used in the 20 watt linear kits. This replaced the BN-43-202 core I had been using. 3 secondary turns instead of 2 and bigger wire.

Two, put two "D" cells in parallel. With just a single cell, Po was 900 mw. So close.... Added the second cell and "BINGO" 1.05 watts! Like I said earlier, 1/10 of a volt makes a big difference. Think of it terms of percent of the available voltage. .. A 0.1v change at 1.5 volts is like a 1v change at 15!

Oh, and maybe the two 50 ufd tantalum Vcc by-pass caps I put on either side of the balun helped too. BTW, nice clean output signal too.

Do I dare add another set of mosfets? Can I get similar results on 40M? How long can this thing put out 1 watt? The fets don't even get warm, so that's not a problem.

Okay, I'll settle down now and be quiet for a while :-)

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Thu, 4 Nov 1999 21:29:18 -0700 (MST)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: "Ed Hare, W1RFI" <w1rfi@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [55244] Re: OP: Zombie, ARRL TT2
Message-ID: <Pine.SUN.4.10.9911042058560.7825-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 4 Nov 1999, Ed Hare, W1RFI wrote:
> because the Zombie and Black Cat theme wouldn't
> be the same without it happening on the Halloween weekend.

I agree, Ed. I think the Zombie Shuffle and Black Cat are now an established Halloween weekend tradition.

> What killed me on Friday night for the Zombie Shuffle was the W1AW
> bulletins. I wanted to work a lot more stations.

Next year the timing of things should preclude trying to operate on

friday night, and hence competing with the ARRL bulletins.

Next year, Halloween 2000 will be on tuesday night. We never want to hold the shuffle on actual Halloween eve to not interfere with family activities. So that means it will either be on saturday, sunday or monday night. If CQWW is that weekend, then scrub saturday. None-the-less, it will occur to coordinate with the Black Cat and W1AW plans. All around, this fun-filled QRP weekend is a keeper.

> If Paul sees his way clear to keeping the Grand
> Zombie number 25 open, I will do my very best to honor that by making it
> an active one.

Zombie badge #025 was PERMANENTLY assigned to W1AW. We'll be sending it, and a couple of other zombie badges to you at ARRL HQ shortly Ed to disperse to the operators. We'll be sending Rich Arlands #664 to him directly. But W1AW has been cursed with #25 from here on out :-)

I'd also like to echo Ed's comments on how fun the event(s) were, and thank everyone for your participating. I think we all enjoyed it, regardless of which end of the circuit we were on.

BTW - I wish I could share with you some of the summary sheets for the Zombie Shuffle we are already receiving. Some quality humor in the true Zombie spirit with people adding their own 666 bonus point categories for the strangest things, strange drawings on the envelopes that has our local Post Master wondering what we're running over here, sketches of Elvis, words from his songs, and the summaries signed by Elvis to Houdini! We're having a blast receiving these things, and Jan is sharing her time scoring the shuffle AND the QRPTTF logs she was recently given.

But without a doubt, the most entertaining has to be the CAUSE OF DEATH reasons being provided. I'm half tempted to post some of them a bit later. Keep an eye on qrp-l for the CAUSE OF DEATH category -hi. Some of them are great. You guys are definitely Zombies, even though I'm not sure myself what the exact definition would be :-)

72, Paul NA5N

Date: Thu, 4 Nov 1999 21:01:32 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Steven Weber <kd1jv@moose.ncia.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [55245] Re: HB: 1V challenge
Message-ID: <Pine.GS0.4.10.9911042101050.15770-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Steve,

Congratulations!

I love it when someone takes on a challenge and makes it!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

Date: Fri, 05 Nov 1999 00:11:04 -0500
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [55246] Re: HB: 1 V challenge, tricks
Message-ID: <382266E8.BC154C65@rit.edu>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

Steven Weber wrote:

> I'll sit down soon and draw up some schematics of the transmitter and
> DC receiver in Circad (DOS ver 3.86) and send them to anyone
> interested. Maybe Doug would be willing to post them on the NorCal
> web page to give people some ideas or a starting point for this
> wonderful contest.

Steve,

I have Web space available - I'd be delighted to post your files there
if you want.

Dave

--

Dave Hinerman WD8CIV
Ontario, NY Grid FN13if
dlh1009@rit.edu

Date: Thu, 4 Nov 1999 21:07:30 -0800 (PST)
From: Monte Stark <ku7y@dri.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [55247] FOX: Happy Dance in NV
Message-ID: <Pine.GS0.4.10.9911042105050.15818-100000@rotor.dri.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Worked Jim tonight. He was zipping right along. Sounds like he is ready for that 13 wpm test any time now!

Very loud signal. A solid S9 with the yagi pointed to him.

Congratulations Jim, you sounded like a real pro!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

Date: Thu, 4 Nov 1999 21:08:36 -0800
From: "jmb" <jmb@cruzio.com>
To: "QRP-1" <qrp-1@lehigh.edu>
Cc: "Wilford D. Lindsey" <70511.3041@compuserve.com>
Subject: [55248] FOX NT+ Log for Nov 4, 1999 -- K6JMB
Message-ID: <01db01bf274b\$d1763a40\$e689e3a5@workstation>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well the good news is I did at least twice as good as Tuesday nite. Bad news is there were a whole slew of folks I just wasn't good enough to copy. Worst case was Wayne WE7G?? who was extremely patient with me but I still couldn't get his call thru all the noise - got everything else though, so included him in the list below. The other anomaly was whether or not I really Q'd Doc (K0EVZ) - I'm honestly not sure at that point whether it was just a big QRM-dream or reality. I included him below in the list and let him decide if he bagged me or not - I think he did- duh!

Despite my difficulties, I have to say this is really a lot of fun. And keeping score with just the number of contacts made doesn't give the entire picture. Some of you guys feel like good buds already and with some of you I've probably Q'd more via e-mail and listened to your good advice about all this -- thanks.

As I said, the good news is I got at least 9, maybe 11 hits. Now I think I'm going to go relax and veg out and relax with some violent video or something. Maybe I oughta just take my golden retriever down to the beach huh?

Time	Call	RST Sent	RST Rcvd	STATE	Name	NR
0230Z 284	AK1P	599	579		CA	Paul
0235 Floyd	NQ7X 133	469	599		AX	
0240 239	KI0G	599	579		CO	Bob
0245 179	KU7Y	599	599		NV	Ron
0250 Dick	AD6IU 951	599	599		CA	
0252 1068	WE6W	599	599		CA	Ed
0255 Ron	KI0II 928	339	599		CO	
0310 502	N7CQR	599	559		OR	Dan
0330 Wayne	WE7G? 189	449	559		UT	
0345	K0EVZ	349	559		ND	Doc
0320 1299	KB7MBI	599	579		WA	Alan

Tnx es cu agn tmw nite for more fun...
72,
Jim
K6JMB

73 de K6JMB
Jim Boyle
Santa Cruz, California
FISTS #6537 QRP-1 #1845 - real men use microphones for doorstops

I'd rather die LIVING than live DYING...

Date: Fri, 5 Nov 1999 00:46:07 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [55249] QQ Clubhouse Editor Needs Input :-)
Message-ID: <199911050048_MC2-8BB8-6C96@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
 charset=us-ascii
Content-Disposition: inline

Gang:

Thanks to all who have already sent in info re your QRP club and its activities. Will make every attempt to get into the next Quarterly.

NOTE: It is not too late for YOU to send something to me. Thanks in advance.

72,

--Doc Lindsey/K0EVZ
DSBF
PO BOX 6028
Bismarck, ND 58506
K0EVZ@arrl.net

Date: Fri, 5 Nov 1999 13:54:02 +0800
From: "Sly (9M8SL)" <cqsly@tm.net.my>
To: <qrp-l@Lehigh.EDU>
Subject: [55250] Re: ELMER300: 2N2/15 Design Lightoff TU e e
Message-ID: <19991105055402.EHGR21907@User>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

Tks fer all the wonderful advice, wishes and comments...
They are certainly helpful. I think, Jim will love all ur suggestions !

Will be away on a camping trip with the boys here this weekend.
The spot will be a seaside resort called 'Pandan' abt 100 km from my QTH.
Will probably bring along a 40m Howes QRP kit to check into the Malaysian Net.

Antenna will be a 66 ft longwire with a small HBrew L-Tuner. Vy Sri, no chance to work the States, or is it?

Tks agn fer all the letters, appreciate it vy much.
I will reply to all personally when I get back from the trip.

Ol' Jim, Donny...we certainly stir things up a little ! Hee Hee...

72 es See Ya All,
de Sly, 9M8SL
From 'The Hidden Paradise of Borneo'

Date: Fri, 05 Nov 1999 01:10:51 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [55251] N/T fox 5 Nov.
Message-ID: <3.0.32.19991105011047.0068589c@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well did not hear Jim K6JMB here in KY. What I did hear was lots of SWBC STNs. Cranked up the old Drake 2B and lo and behold, the station camped in the novice band at 7105 was the Voice of America!!!! Gosh! Made me feel kinda Red, White, and Blue inside! Up the band was Radio Moscow under a new format. One would at least expect these lebenty-jillion watt Gummitt (Pogo) stations to honor the Novice Band!!! Good Grief!!!
'nuf sed ...73 Pete NV4V Ky

Date: Thu, 4 Nov 1999 23:16:02 -0800
From: "Kory Hamzeh" <kory@avatar.com>
To: <qrp-1@lehigh.edu>
Subject: [55252] Resistor/Capacitor Kits
Message-ID: <001401bf275d\$9de5fb40\$14ce21c7@tomcat.avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

I could kit myself for not buying any of the NorCal resistor and cap kits. Had I known that I'd be bitten by the HB Bug like I have been, I would have done differently. Does anyone know of a place to check such arrangements at a reasonable price?

Tnx & 73,
Kory
AC6RN

Date: Thu, 4 Nov 1999 23:14:01 -0800
From: "Kory Hamzeh" <kory@avatar.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [55253] RE: Enclosures
Message-ID: <001301bf275d\$55e6e3e0\$14ce21c7@tomcat.avatar.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thanks everyone for reminding me to contact Ten Tec. When ever I need something that I can't find, I ALWAYS forget to contact "THE" place I need to. I gotta stop this!

73,
Kory

> I've started on my 2n2/40, but I'm making the PCB slightly larger
> (about 6 x
> 7 instead of 5 x 7), because I'm adding the tick chip and the a 10 watt
> final. Believe it or not, I can not find an enclosure to fit the PCB and
> leave enough room for the front panel and back panel controls. Radio Shack
> (and others) have a 8 x 6 x 3 cabinet, but I need something a
> little larger
> (maybe 8 x 7 or 9 x 7). I've checked the Radio Shack, Tech
> America, Mouser,
> Digi-Key, MPJA with no luck.
>
> Any leads here would be nice. I'm looking for a high quality, nice looking
> enclosure.
>
> 73,

> Kory
> AC6RN
>
>

Date: Thu, 04 Nov 1999 23:44:49 -0700
From: "J. Medley" <jmedley@ix.netcom.com>
To: qrp-1@lehigh.edu
Subject: [55254] ZOMBIE: Puff, pant, whew!...giggle
Message-ID: <38227CE1.431515EB@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, now that I got your attention... ;>

Am absolutely overwhelmed with the logs I'm getting for the Zombie Shuffle, keep 'em coming! You guys are keeping me in stitches....this is a GOOD thing for a Zombie ;>

I wanted to take a break and say a very special thanks to all of our Elvis stations this year. You guys made it a lot of fun for everyone. Also, at some point in the future, I will be posting a master list of Zombie numbers.

The former witchess has vanished into the netherworld and, unfortunately, the whirlwind left in her stead has wreaked havoc and chaos with the master list. I'm fervently trying to straighten it out, so where better to ask for help than among one's peers....hmmmm...can Zombies be peers? ;>

Here is the star-studded list of Elvis 99 stations...thanks again to all of you:

The resident Dan "The King" Presley, N7CQR OR
The inevitable Marty "Elvis" Watt, N5NW TN
Dr. Ed Loranger, WE6W CA
Dan Wolfe, N4ROA VA
Monte "Ron" Stark, KU7Y NV
Ed Manuel, N5EM TX
Rod Cerkoney, N0RC CO
The QRP Cheeseheads ARC, N9QRP WI
Dave Cary, W9SUL MN
Bob Kellog, AE4IC NC
Mike Connor, NQ7K AZ
Bruce Hopkins, KL7H AK
Bruce Rattray, VE5QRP SK Canada

Brien Pepperdine, VE3VAW ONT Canada

72, Jan N0QT

Date: Fri, 5 Nov 1999 08:23:02 -0500
From: Jim_Cadorett@ne.3com.com
To: qrp-1@Lehigh.EDU
Subject: [55255] Re: Dayton 2000
Message-ID: <85256820.00496867.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Is anyone in New England going to the Dayton Hamfest 2000 ?

Date: Fri, 5 Nov 1999 06:21:07 -0500
From: Peter_Simpson@ne.3com.com
To: hugh@dim.com
Cc: qrp-1@lehigh.edu
Subject: [55256] HB: Magnifier lamp suggestions
Message-ID: <85256820.003DC2B0.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Hi Hugh -

I can tell you some to stay away from :-)

The heavy metal ones, unless you get them for free (springs weaken and they fall on your work).

The ones with halogen bulbs (ouch!)

My preference is for the rectangular plastic Luxo units with the

two compact fluorescent tubes, one on either side of the magnifier. It's on the standard metal pantograph, with the ballast mounted on the back of the bottom section. Sorry, no numbers at all on the one in the lab. Look for the round black "0/1" rocker switches on each side of the magnifier.

72,

Peter Simpson, KA1AXY
Holliston, MA

Date: Fri, 5 Nov 1999 06:48:53 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [55257] Re: HB: Magnifier lamp suggestions
Message-ID: <Pine.BSI.3.96.991105064404.687B-1000000@usr06.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

We've been using some relatively inexpensive ones from Frys. The springs are such that if you want to do close work, the lamp will rise into your face. Taking off one spring or stretching two of them fixes the problem. Other than that, they're just fine. Uses the same halo bulb as the Luxo.

Chris

```

/-----\
/  What's all this  \
/ extinct stuff, anyhow? /
\-----\
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    \  "
    \  ( ) \
    \  '-| )__| :. \
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    \  c__; c__; '---'>._

```

High Performance Mixers and
Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Fri, 5 Nov 1999 07:54:09 -0600 (CST)
From: "Kevin L. Anderson" <kla@helios.augustana.edu>
To: qrp-l@lehigh.edu
Subject: [55258] CONTESTS: KB9IUA/0 QRP in SS from Iowa
Message-ID: <Pine.SOL.3.96.991105074401.24604B-100000@helios.augustana.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Iowa is somewhat of a rarer state (although by no means the rarest). To add to its fame, I'll be operating CW Sweepstakes this weekend from Dubuque Iowa as QRP station KB9IUA/0. (This is assuming I get my temporary inverted L up and working properly....) This will be my first time operating from this location, so I have no idea what this antenna in this location will do. I intend to be on 15-20-40, and possibly 80, meters. I'll be also trying out the N3FJP software (normally my local contesting club uses NA, but I don't have the latest version yet). Last year I got the pin; I hope to beat that score. But we will see, as I'm also watching the kids while my wife is out town.

See you SS. Cheers/73. Kevin, KB9IUA, Rock Island IL
home: KB9IUA@juno.com work: kla@helios.augustana.edu or
gganderson@augustana.edu

Date: Fri, 05 Nov 1999 06:54:24 -0700
From: Jerry Haigwood <w5jh@swlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Cc: ScQRPions Reflector <azqrp@extremezone.com>
Subject: [55259] HB:The Z-Match Antenna Tuner
Message-ID: <3822E190.52CB09D@swlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Gang,

The Z-Match antenna tuner has been around for quite a

while. They were quite popular in the 1950's and currently there is a least 1 commercial version of the Z-Match (the ZM2). This tuner is known to match a wide range of antennas and also be very efficient - especially while using parallel feed lines. I recently built a Z-Match and thought I would share my experience with all. A packet of information is available from Charlie Lofgren, W6JJZ. Charlie is the guru of this tuner. If you are interested in building one yourself, email him at clofgren@benson.mckenna.edu and ask for the Z-Match package.

I built the Z-Match in about 2-3 days using available parts. I used a broadcast 3 section 25-365 pF cap for the series cap (C1) and a dual section 25-365 pF cap for the shunt cap (C2). I decided I wanted to use my Z-Match for 7-21 Mhz operation so I adjusted the coil L1 to give me that range. The lower frequency of operation is determined by the maximum capacitance of C2 (365 pf in my case) and the inductance of L1. The upper frequency is determined by the minimum capacitance of C2 and stray capacitance. I plugged 365 pF into the resonance formula and calculated that I needed a 1.5-1.8 uHy coil for L1. (Note: the original L1 was 5.5-5.8 uhy) I used 16t of #22 on a T94-6 core (about 1.8uHy). The coil is center tapped at 8t (duh!) and the ground tap is at 4t. The high impedance link L2, is 8t #22 centered around the ground tap. The low impedance link L3, is 4t #22 also centered around the ground tap. (Note: If you decide to modify L1, you should keep the number of turns evenly divisible by 4.) This combination gives me about 6.8 Mhz to 22 Mhz coverage - just about right! I also included Dan Tayloe's LED SWR circuit. I built it using the island/Manhattan/paddy board/"whatever you want to call it" method and I'm not telling what kind of glue I used! :-) BTW, Dan's circuit works great. A Hammond Polystyrene box about 3x6x6 inches (HWD) was used to house the Z-Match. Front and rear panels were laid out using Visio Technical (a technical drawing program), printed on my color inkjet, and taped to the panels. Nylon screws and 1/4 inch nylon standoffs were used to mount the capacitors. The coil is held in place by its 8 flying leads! The Tayloe SWR bridge is bolted to the back panel.

As a simple test, I placed a 2200 Ohm resistor across the Hi-Z balanced output and used my MFJ259B SWR Analyzer to measure the SWR through the tuner. (Note: the 2200 Ohm resistor represents a 44:1 SWR!). I was able to match the 2200 Ohm to a perfect 1.1:1 SWR from about 6.5 to 28.5 Mhz. I also repeated the test using a 4.7 Ohm resistor across the

low impedance link. Again I was able to match it across the same range although I noticed that a lot more C1 is needed for low impedance loads! I had to switch in the additional two 365pF sections. When connected to my 160ft horizontal delta loop fed with 450 Ohm ladder line, the tuning range is somewhat reduced but within my original design goal.

If you would like to see what it looks like, click on...

<http://www.swlink.net/~w5jh/>

and follow the BUILDING PROJECTS link to the Z-Match and some of my other projects or if you only want to see the Z-Match you can click on...

<http://www.swlink.net/~w5jh/zmatch.htm/>

This site has the schematic and several pictures of the tuner.

This was a fun project for me and I wish to thank Charlie Lofgren, W6JJZ, and fellow ScQRPion Dan Tayloe, N7VE, for the design.

--

73, Jerry Haigwood, W5JH, Peoria, AZ USA
web page <http://www.swlink.net/~w5jh/>

Date: Fri, 05 Nov 1999 07:01:36 -0700
From: Jerry Haigwood <w5jh@swlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Cc: ScQRPions Reflector <azqrp@extremezone.com>
Subject: [55260] Re: HB:The Z-Match Antenna Tuner
Message-ID: <3822E340.438E7138@swlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jerry Haigwood wrote:

> <http://www.swlink.net/~w5jh/zmatch.htm>
>
> This site has the schematic and several pictures of the
> tuner.

>
> This was a fun project for me and I wish to thank
> Charlie Lofgren, W6JJZ, and fellow ScQRPion Dan Tayloe,
> N7VE, for the design.
>
> --
> 73, Jerry Haigwood, W5JH, Peoria, AZ USA
> web page <http://www.swlink.net/~w5jh/>

Sorry gang I had a bad URL! I corrected it above.

--
73, Jerry Haigwood, W5JH, Peoria, AZ USA
web page <http://www.swlink.net/~w5jh/>

Date: Fri, 5 Nov 1999 09:04:24 -0500
From: "John J. McDonough" <jjmcd@tm.net>
To: <kory@avatar.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [55261] Re: HB: Resistor/Capacitor Kits
Message-ID: <002a01bf2796\$b35a9920\$010044c0@conor-mac-nessa>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

DigiKey has resistor kits at pretty reasonable prices. I don't recall the pricing on their capacitor kits, but it must not be that wonderful because I was never tempted :-))

One problem with the kits is keeping them inventoried. If you have 'all the values' you hardly ever buy resistors for a project. You need to inventory the kit every so often (a real pain) and stock up from time to time. I've taken to buying strips of 200 of the more common value when I see them at hamfests. Even so, I frequently find myself missing a value I want because inventorying is such a pain, and my recognition of what's a 'common value' apparently isn't so good. My kit I bought ages ago and it's in a bunch of little plastic envelopes. If I had a drawer per value, perhaps the inventorying wouldn't be such a pain. But that's a lot of precious space in the shack.

The other solution I've been applying is to buy way more than I need. For example, when I set out to collect parts for the 2N2/40, I bought 5 times the required number of any value that the design called for 2 or more of. Singles I supplied out of my inventory. DigiKey charges just over a nickel

per resistor, so this wasn't a huge investment.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr/>
didileydadidah QRP-L #1446 Code Warriors #35

-----Original Message-----

From: Kory Hamzeh <kory@avatar.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, November 05, 1999 7:45 AM
Subject: Resistor/Capacitor Kits

>
>I could kit myself for not buying any of the NorCal resistor and cap kits.
>Had I known that I'd be bitten by the HB Bug like I have been, I would have
>done differently. Does anyone know of a place to check such arrangements at
>a reasonable price?
>
>Tnx & 73,
>Kory
>AC6RN
>

Date: Fri, 5 Nov 1999 08:22:24 -0600
From: "Nick Kennedy" <nkennedy@cswnet.com>
To: <lycott@fox.nstn.ca>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [55262] re:HELP: on output impedance of 1 v. oscillator.
Message-ID: <004201bf2799\$2ee98a40\$3e7054d8@the-great-c>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Robert W. Shaw <lycott@fox.nstn.ca>
>I would appreciate any comments on
>the circuit, but in particular, can anyone tell me how to estimate,
>calculate or measure the output impedance of this circuit?
>

Measure? OK. When the math gets too serious, here's a method I'd try.

The model assumes the circuit can be considered to be a voltage source in series with a source resistance. Attach a known load (resistance) R1 and measure the voltage V1 across it. Now do the same with a second resistance value (R2 and V2). You come up with two equations in two unknowns and can solve for the source resistance.

The equation I came up with is $R_s = (R1 \cdot R2 \cdot (V1 - V2)) / (V2 \cdot R1 - V1 \cdot R2)$ hope you can read it in this format.

I'd probably select R1 to be in the "expected" range for Rs or else to be near the value of load you intend to connect. R2 should be close enough that it doesn't change the operating point so much that the model becomes invalid, but far enough that you get distinctly different readings. This is cause V1-V2 is a direct multiplier in the formula, so if you read 5.00 volts and 5.01 volts and your meter has a resolution of .01 ...

good luck & 72,

Nick, WA5BDU

Date: Fri, 5 Nov 1999 08:18:14 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "QRP List 2" <qrp-l@Lehigh.EDU>
Subject: [55263] QRP Drake Transmitter
Message-ID: <000101bf2798\$993bab40\$04987b7b@dooleydw>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

How does 4 watts out of a T-4XB sound?

Well, problem is, that's at full bore on the gain control. Guess I could leave it there and just operate at that level, but, there really is something wrong. Something smoked and after replacing the only burned component I could find, that's where it is. There is no bias reading on the meter either (for any of you familiar with the Drake), so something's seriously wrong.

The only tubes I have not swapped out in troubleshooting have been the two finals. Don't yet have a spare set. Power supply and all voltages check just fine. I do have a manual and schematic. I'm just wondering what indications I'd get, especially with the bias reading if the final(s) went bad.

Anyone have any experience with dead Drakes? Reply off list to me.

Tnx

Dan W. Dooley - WB5TKA Y2K Complacent
e-mail to: dandoooley@pipeline.com
Si Hoc Legere Scis Nimium Eruditionis Habes

Date: Fri, 5 Nov 1999 09:38:00 -0500
From: "Hugo Catta" <h.catta@worldnet.att.net>
To: <w5jh@swlink.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [55264] Re: HB:The Z-Match Antenna Tuner
Message-ID: <004d01bf279b\$5d26c7e0\$a9dc4e0c@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Jerry,

I'm curious about the coil. Why a T-94 ? Did you run any efficiency test ?
In the absorption SWR meter circuit's picture, the resistors seem to be 1/2
W. How much power do you run?

72,
Hugo
CX9AAK/W2

P.S. Neat box !

Date: Fri, 5 Nov 1999 09:14:39 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [55265] FOXHUNT:Team Scores
Message-ID: <Pine.LNX.3.95.991105090814.934C-1000000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I missed KF2PH at 0156Z.....I'm going to have to get Bonnie to check my

scoring again!... :-)

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

...DON'T FORGET FOXII, SEND YOUR "FINAL LOG" TO ME AS WELL
AS TO PAUL...that will be a big help...thank you all....

Fox Hunt #2 - KU7Y -

20th. MAINE BENGAL BEARS:Total=3 BLUE J's:Total=1

Jim - N5IB <-
Butch - N5SMQ
Bill - NT1R <-
Joel - KE1LA

John - VE3JC <-
Jim - VE6JWA
Jeff - VA3JFF
Jon - TF3JA

DURHAM MORSE MEN:Total=0

Jim - VE3KQN
Ken - VE3ELA
John - VA3JE
Garry - VE3REP

EMPIRE HOUNDS:Total=1

Dick - K2REB
Kevin - N2TO
Mark - N2JTW
Nick - KF2PH <-

HOUSTON HOUNDS:Total=7 "SWEEP!"

Bill - K5ZTY <-
Bill - W5SB <-
Terry - KQ5U <-
Dan - KK5LD <-

MANGY MUSHERS:Total=5 "SWEEP!"

Pete - NV4V <-
Paul - VE7CQK <-
Bruce - N7RR <-
Ed - K1VP <-

NIGHT OWLS:Total=3

Ed - WE6W <-
Rich - N5JI
Dan - N7CQR <-
Ben - NW7DX <-

OKLAHOMA TORNADOS:Total=6 "SWEEP!"

Cliff - AB5UA <-
Royce - KE5TC <-
Don - K5AAR <-
Gody - AC6U <-

RAIDERS OF THE LOST RF:Total=3

Fred - VE3FAL
Earl - VE6EWM <-

SCATTER SHOT GUNNERS:Total=4"SWEEP!"

Mike - K1MG <-
Jack - W5TFB <-

Mary - NA6E <-
Bruce - VE5RC <-

SFBA FOGHORNS:Total=2

Bob - N6WG
Conrad - NN6CW
Andreas - N6NU <-
Allan - K7GT <-

SWORDS:Total=4

Rick - WB6JBM
Andy - KC8KFI
Doc - K0EVZ <-
Dan - N8IE <-

TEAM ScQRPion:Total=5

Floyd - NQ7X <-
Gary - AB7MY <-
Conard - WS4S <-
Bob - KI7MN

TEXAS TARANTULAS:Total=6 "SWEEP!"

Bill - K5LN <-
Dave - N5IW <-
Bob - AF5Z <-
Tom - N5TW <-

WESTERN WRANGLERS:Total=2 "1 WATT"

Randy - K7TQ <-
Chuck - K7QO <-
Steve - WW7Y
Ron - KU7Y

Stan - N6XU <-
Pat - K0PC <-

SWAMP RATS:Total=6

Tom - N1TP <-
Mac - AF4PS <-
Fred - W2XN <-
Paul - AJ4Y

TEAM CRAMP.COM:Total=6 "SWEEP!"

OJ - K10J
George - K5VUU <-
Mike - K5NZ <-
Eric - NM5M

TESLA'S TERRORS:Total=7

Wayne - N0EA <-
Dan - N0DT <-
Tim - N0EHW
Joe - W0JOE <-

UNDERDOGS:Total=5

Roy - AB7CE <-
Dan - N4ROA <-
Brian - KB9BVN
Ron - KI0II <-

NORTEX Irregulars:Total=0

Doc - W5TB
Joe - KK5NA
Don - N5YAK
Barb - KK5QA

any final changes for the KU7Y fox log please?....72 - Bruce(VE5RC+VE5QRP)

Date: Fri, 05 Nov 1999 08:21:19 -0700
From: Jerry Haigwood <w5jh@swlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Subject: [55266] Re:HB:The A-Match Antenna Tuner
Message-ID: <3822F5EF.D99319A1@swlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hugo Catta wrote:

> Hi Jerry,
>
> I'm curious about the coil. Why a T-94 ? Did you run any
efficiency test ?
> In the absorption SWR meter circuit's picture, the
resistors seem to be 1/2
> W. How much power do you run?
>
> 72,
> Hugo
> CX9AAK/W2
>
> P.S. Neat box !

Hugo,

I used a T94-6 because of the low inductance I needed to
tune 7-21 Mhz. If

I had used a larger core, fewer turns would have been needed causing a problem with the output links. The coil in the Z-Match is also a transformer since it has two coupling links. Charlie Lofgren suggested keeping the links at about the same ratio as the original design. I kept 8 turns for the high impedance link and 4 turns for the low impedance link - perhaps a little high but it works for me. This is a place where you can experiment and find what works best with your antennas. When winding L1, try to keep the number of turns divisible by 4. This keeps symmetry and maintains balance (it's hard to "center" tap an odd number of turns!). L2 and L3 should be an even number of turns centered either side of the ground tap.

I haven't run any efficiency tests yet.

The resistors in the Tayloe Bridge are 1W units. The bridge can withstand 3-4 watts for quite a while before anything gets hot. The amount of power being absorbed by the resistors is determined by the impedance of the antenna. If the antenna is matched to 51 Ohms, then each resistor will dissipate about 1/4 of the total power. BTW, I usually operate at 1-3 watts.

--

73, Jerry Haigwood, W5JH, Peoria, AZ USA
web page <http://www.swlink.net/~w5jh/>

Date: Fri, 05 Nov 1999 10:27:53 -0500
From: Ken Newman <N2CQ@citnet.com>
To: QRP-L@lehigh.edu, njqrp@njqrp.org
Subject: [55267] CONTEST: QRP Contest This Weekend
Message-ID: <3.0.6.32.19991105102753.007e4d10@mail.citnet.com>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

QRP CONTEST CALENDAR

Nov 5-8, 1999

HA-QRP Contest (CW - 80 Meters) *** QRP Contest***

Nov 1 - 0000z to Nov 7 - 2400z

Rules: <http://www.sk3bg.se/contest/haqrp.htm>

Ukrainian DX Contest (CW/SSB) ... QRP Category

Nov 6 - 1200z to Nov 7 - 1200z

Rules: <http://www.sk3bg.se/contest/ukrdxc.htm>

ARRL Sweepstakes (CW) ... QRP Category

Nov 6 - 2100z to Nov 8 - 0300z

Rules: <http://www.arrl.org/contests/announcements/98/rules-novss.html>

AND LATER.....

Japan International DX Contest (phone)

Nov 12 - 2300z to Nov 14 - 2300z

Rules: <http://www.sk3bg.se/contest/jaintdx.htm>

WAE RTTY Contest (Digital)

Nov 13 - 0000z to Nov 14 - 2400z

Rules: <http://www.sk3bg.se/contest/waerttyc.htm>

~~~~~

OK/OM DX Contest (CW) ... QRP Category!

Nov 13 - 1200z to Nov 14 - 1200z

Rules: <http://crk.mlp.cz/ENG/DXCONTE.HTM>

~~~~~

LI/NJ QRP Doghouse Operation Sprint *** QRP Contest ***

Nov 20 - 1700z to 2100z

Rules: http://www.njqrp.org/doghouse/doghouse_announce.html

~~~~~

ARRL Sweepstakes (Phone) ... QRP Category

Nov 20 - 2100z to Nov 22 - 0300z

Rules: <http://www.arrl.org/contests/announcements/98/rules-novss.html>

~~~~~

HOT Party (CW) ... QRP Category

Nov 21 - 1300z to 1500z (40 Meters)

Nov 21 - 1500z to 1700z (80 Meters)

(HOMEBREW & OLDTIME - EQUIPMENT - PARTY)

Rules: <http://www.sk3bg.se/contest/hotp.htm>

~~~~~

CQ World Wide DX Contest (CW) ... QRP Category!

Nov 27 - 0000z to Nov 28 - 2400z

Rules: <http://cqww.com/cqww/cqwwrule.html>



volunteering to burn copies who would be willing to do me the honour. At least I can disseminate further now - I need some excuse to use my newly acquired CD-Writer before the XYL complains about another bit of unused technology.

Brian G0UKB

Brian E Jones

Technical Planner  
Java Technology Centre  
IBM Hursley

-----  
Date: Fri, 5 Nov 1999 11:15:10 -0500 (EST)  
From: Chris Cartwright Sr <ccart@phideaux.com>  
To: "Ed Hare, W1RFI" <w1rfi@arrl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55270] Re: CONTESTS: SS next weekend  
Message-ID: <Pine.LNX.4.04.9911051110260.5927-100000@dns.phideaux.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 2 Nov 1999, Ed Hare, W1RFI wrote:

> Anyone want to take on my unofficial world record of points per watt?  
> A lobster dinner at Tinker's Seafood here in West Hartford to the one  
> who beats that record. :-)

I'm sure a couple of us (KJ5TF are you listening:) will be trying for that one! Why should KU7Y be the only one to get a free meal out of SS :) 72

-- Chris Cartwright, Technical Engineer | ccart@phideaux.com --  
-- N3XRV ARRL-VE Norcal Zombie #163 | Gaithersburg, MD FM19je --  
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

-----  
Date: Fri, 5 Nov 1999 08:42:32 -0800 (PST)  
From: Monte Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55271] CONTESTS: SS this weekend

Message-ID: <Pine.GS0.4.10.9911050831150.18931-100000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Just a little update.....

I still off work with that darned flu. It's that new one called  
Sweeksteaks Flu".....should be gone by Monday AM!

All that is left to do is hook up the second radio, add a COM  
port to the old 386 logging computer and test that all out.

Plus the biggie.....I still gotta get up the tower to polish  
all those wire nuts in the coax! Also need to change the conductive  
paste. That will help a bit. And I may have have one that is  
screwed on backwards....gotta get that corrected. Can't have  
those electrons getting dizzy up there and missing the antenna!

I also need to add the SS spin in the coax going from the tower  
box to the yagi. Can't have too much spin in that coax or the  
signals will go too far.....this is a close in test!

Will also put a very small hole in the braid of the coax going  
to the 40m yagi. This hole will be pointed at CA and will let  
just enough electrons leak out to give me a good signal there  
without having to turn the beam.

I really shouldn't be giving all these secrets away so early.  
Chuck will probably get to that "Big Gun" station early just  
to get all this done. Hey, it's only a few 200' towers to  
climb....just some good excersize! :-)

OK, I'm out of here for a bit.....

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

-----

Date: Fri, 5 Nov 1999 10:42:16 -0600  
From: Bcieslak@ra.rockwell.com  
To: qrp-l@lehigh.edu  
Subject: [55272] FOX:Foxburo QSL service reminder

Message-ID: <86256820.005BC28A.00@ramilwsmt01.ra.rockwell.com>

Mime-Version: 1.0

Content-type: text/plain; charset=us-ascii

Content-Disposition: inline

cards and envelopes are trickling into the buro. Now that you have a few fox pelts under your belt its time to think about sending your cards through the buro...see details at the website.

<http://www.qsl.net/nq9rp/foxburo.html>

If you dont have web access drop me an email for info. AE9K@arrl.net

Currently cards are waiting for ku7y, k1oj , ab5ua

Brian AE9K / NQ9RP  
QRP Cheeseheads ARC

-----  
Date: Fri, 5 Nov 1999 08:52:53 -0800 (PST)

From: Monte Stark <ku7y@dri.edu>

To: Bcieslak@ra.rockwell.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [55273] Re: FOX:FoXBuro QSL service reminder

Message-ID: <Pine.GS0.4.10.9911050851400.18931-100000@rotor.dri.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 5 Nov 1999 Bcieslak@ra.rockwell.com wrote:

> cards and envelopes are trickling into the buro.

> Currently cards are waiting for ku7y, k1oj , ab5ua

Hi Brian,

I'll get envelopes and a full log of cards off to you right after SS.

Thanks,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

-----

Date: Fri, 05 Nov 1999 10:38:28 -0700  
From: Jerry Haigwood <w5jh@swlink.net>  
To: Drbob92031@aol.com  
Cc: QRP-L Reflector <qrp-l@lehigh.edu>  
Subject: [55274] Re:HB: Z match question  
Message-ID: <38231613.ADAFA6FC@swlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Drbob92031@aol.com wrote:

> Hi Jerry;  
>  
> Tnx a zillion. Guys like you are hard to find. My question. If I wish to use  
> the Z Match on HF bands 80 thru 10 ( 80/40/20/15/10) which core would you  
> suggest for L1.  
> Any other changes to schematic for all band coverage? Qth here is in a condo  
> and antennas are FORBIDDEN under penalty of something or other. so I have a  
> long wire on the roof for 20 M but would like to get my HW-8 on other bands.  
> Tnx for any assist.  
> Either email direct or to list, I read both.  
> 72/72 de WA2EAW..Bob

Bob,

Charlie Lofgren, W6JJZ, suggests using a T130-6 or T157-6 but the T130-6 seems to be the most popular. The inductance (or number of turns) of L1 and the maximum capacitance of one of the dual variable cap (C2) determine the lowest frequency of operation. For 365 pf caps, you need about 5.5-5.8 uhy of inductance. Charlie used 24 turns on a T130-6 core to acheive operation at 3.5 Mhz. This value was used with a C2 cap of 330 pf or greater. To calculate at your lowest frequency of use, measure the maximum capacitance of your C2. Calculate Xc at your lowest frequency

$$X_c = 1/(2\pi \times \text{frequency} \times \text{capacitance}).$$

To find the inductance of L calculate

$$L = (X_c / (2\pi \times \text{frequency})) \quad \text{since } X_L = X_c \text{ at resonance.}$$

Once you have the required inductance value, you can use the AL value from the



core manufacturer to determine the number of turns you need for your core size/type.

The upper frequency range is dependent upon the minimum capacitance of C2 and any stray capacitance. Try to find a very low minimum capacitance dual section variable (it's not going to be easy). I couldn't find any low enough to reach 10 meters. With my C2, I get a little more than a 3:1 frequency range (7-21 Mhz).

Another alternative is to add a second, lower inductance coil for the upper half of the HF band. However, this option violates the spirit of the the single coil tuner and would create a switching problem (like how do you switch 7 leads!).

Hope this helps.

--

73, Jerry Haigwood, W5JH, Peoria, AZ USA  
web page <http://www.swlink.net/~w5jh/>

-----  
Date: Fri, 5 Nov 1999 12:38:30 EST  
From: WB9MII@aol.com  
To: qrp-1@lehigh.edu  
Subject: [55275] New (for me) antenna: St Louis Vert. I am amazed so far  
Message-ID: <0.22e8b5af.25547016@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Howdy folks,  
Something I read from W0RSP in a recent QQ got me curious. I brewed up a St. Louis Vertical for 20M outa some junk coax....9 ft of ribbon twinlead...and about 15 ft of wire thrown on the floor as a "radial". Well...so far I've had 3 QSO's on it, RI, WV, and NJ. Lowest rpt was 579 to WV...589 to the other 2. and I evedently cut thru some QRM with the RI QSO. To those that have made and used one of these mebbe it's old hat...but for my money (or lack of money really ) I am amazed at the improvement over the indoor Zepps and Dipoles so far.

VY 72

Greg WB9MII  
QRP ARCI 9719

-----  
Date: Fri, 05 Nov 1999 12:55:54 -0500

From: osier <osier@northnet.org>  
To: qrp-l@lehigh.edu  
Subject: [55276] N/T in Sweeps....hope to see you !!!  
Message-ID: <38231A2A.A92217BE@northnet.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello All !!!

Hope to see some of you out and running the Sweeps !!!!!  
I will be at the usual Novice freqs ....7110 , 21110 , 28,110 ..maybe  
meet ya there !!!!  
Should be at MW power !!!

73s and GL to all !!!

George Osier , N2JNZ/T

-----  
Date: Fri, 5 Nov 1999 11:20:59 -0700  
From: Gary L Surrency <gsurrency@juno.com>  
To: eleccraft@qth.net  
Cc: qrp-l@lehigh.edu  
Subject: [55277] LIST: Elecraft Reflector problems?  
Message-ID: <19991105.112059.-221057.2.gsurrency@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Is anyone else having problems getting to the Elecraft reflector?

73, es tnx.

Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Fri, 5 Nov 1999 13:35:04 -0500  
From: tbowman@nbn.net  
To: <qrp-l@lehigh.edu>

Subject: [55278] WTB: OHR SCAF and/or OHR QRP Sprint II  
Message-ID: <004d904351805b9NBN1@nbn1.nbn.net>

The subject says it all.  
I'm looking for the OHR SCAF kit/assembled or  
the OHR QRP Sprint. Lest we forget, the Sprint uses a  
direct conversion receiver, and is built around the W7ZOI classic  
transceiver.

73, Tom WA3REY

-----  
Date: Fri, 5 Nov 1999 10:40:15 -0800 (PST)  
From: Jim Hale <kj5tf@yahoo.com>  
To: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [55279] Adjustable power QRP rigs?  
Message-ID: <19991105184015.8778.rocketmail@web702.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I was asked what QRP radios, & kits are adjustable on  
the outside of the rig?

I think the OHR 100A is one, my QRP+ is another.

How about others? I might add a webpage about this.

Thanks! Jim KJ5TF

=====  
Ham radio/alt energy <http://www.qsl.net/kj5tf/>  
Milliwatting Editor ARCI QRP Quarterly  
Arkansas QRP Club #2

-----  
Do You Yahoo!?  
Bid and sell for free at <http://auctions.yahoo.com>

-----  
Date: Fri, 05 Nov 1999 08:42:42 -0600  
From: "J. W. (Dub) Thornton" <dub@oklahoma.net>  
To: qrp-l@lehigh.edu  
Subject: [55280] Re: KITS: magnifier lamps  
Message-ID: <4.2.0.58.19991105083956.00c986d0@mail.oklahoma.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Harbor Freight has the fluorescent lamps, normally around 35 bux,  
but frequently on sale for \$29.99. I have bought several during the  
past three years or so, (for others) and they are an excellent buy.  
My ole clunker is still going strong, after more than 25 years.

"72"

-

J. W. (Dub) Thornton WA5YFY  
Minco, OK.

-----  
Date: Fri, 5 Nov 1999 10:48:44 -0800  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <gsurrency@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55281] RE: LIST: Elecraft Reflector problems?  
Message-ID: <001f01bf27be\$62e1d4e0\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Yes, I tried posting a message last night that is still sitting my my  
server. The mail server for QTH.NET seems to be rejecting all connections.

> Is anyone else having problems getting to the Elecraft reflector?  
>  
> 73, es tnx.  
>  
> Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)

-----  
Date: Fri, 05 Nov 1999 12:53:11 -0600  
From: Dave Sjolin <sjolin@swbell.net>  
To: kj5tf@yahoo.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55282] Re: Adjustable power QRP rigs?  
Message-ID: <38232797.B38B7A19@swbell.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

Jim Hale wrote:

>  
> I was asked what QRP radios, & kits are adjustable on

> the outside of the rig?  
>  
> I think the OHR 100A is one, my QRP+ is another.  
>  
> How about others? I might add a webpage about this.

K2

TS-940s (well its what I use) :-)

73 de Dave, N0IT

-----  
Date: Fri, 05 Nov 1999 18:58:17 +0000  
From: "Mel Evans, Registered Arachne User" <mel@euramcom.freeserve.co.uk>  
To: qrp-l@lehigh.edu  
Subject: [55283] HB:1v challenge  
Message-ID: <E11joif-0003ne-00.1999-11-05-19-08-17@mail24.svr.pol.co.uk>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Hi Gangue,

Interesting stuff this about the 1v and a single 1.5v cell. I've been taking the Nils tablets again, and my mind (?) came round to asking, why bother with a single cell for power?

If you can get a rig working at this sort of voltage level, what about a long wire feeding into a hi-efficiency xtal set, doesn't need to be tuned as you are only looked for big hootie freebie volts, and a voltage doubler circuit rectifying the signal from the broadcast bands! Then you only need a good field strength on an AM station to run your rig?

Duuuuuh! If it's this easy, why hasn't anyone done it already?

Regards

Mel

Visit <http://www.santamail.freeserve.co.uk> to send a note to Santa

Arachne, the Internet Suite and "QRP" Browser for DOS, supports tables, graphics, animations, forms, HTML 4.0 Transitional Pages and more!

<http://www.arachne4dos.freeserve.co.uk>

e-mail to: gm6jag@arrl.net  
or: mel@euramcom.freeserve.co.uk

72 & 73 de Mel  
GM6JAG  
Edinburgh Scotland UK  
Home of the last HW9

-----  
Date: Fri, 5 Nov 1999 13:22:06 -0600  
From: Karl Kanalz <KKanalz@excel.com>  
To: sjolin@swbell.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55284] RE: Adjustable power QRP rigs?  
Message-ID: <2D343922E283D211945C0008C7A41B2ACEB9F9@ADNTEX01>  
MIME-Version: 1.0  
Content-Type: text/plain

My FT-1000D and iCOM '781 are both adjustable to 5 watts or less of output power. But then, they didn't "start life" as QRP radios in the usual sense of the word.

Karl K - W8TIF  
McKinney, TX

-----Original Message-----  
From: Dave Sjolin [SMTP:sjolin@swbell.net]  
Sent: Friday, November 05, 1999 12:53 PM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Adjustable power QRP rigs?

Jim Hale wrote:

>  
> I was asked what QRP radios, & kits are adjustable on  
> the outside of the rig?  
>  
> I think the OHR 100A is one, my QRP+ is another.  
>  
> How about others? I might add a webpage about this.

K2  
TS-940s (well its what I use) :-)

73 de Dave, N0IT

-----  
Date: Fri, 05 Nov 1999 11:17:32 -0800  
From: Ed Loranger <we6w@qsl.net>

To: qrp-l@lehigh.edu  
Subject: [55285] Sprints and Lessons to learn/ SST-20 Query.  
Message-ID: <38232D4C.3C70@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Happy Friday to all.

I've been playing around with the Spartan results on the ARS webpage. I see that my totals for 20 meters could really be improved. I don't know what it is but I think a good start would be an improvement in Antenna(e)

It may be time to quit loading up the 40 meter dipole and put in a 20 meter resonant dipole. We gotta get that signal going broadside.

Maybe it is time to tune up that Lattin 5 Band antenna?

So, besides playing radio and just plain having fun, don't neglect reviewing how you did over the months. I think it is fun to review the ratio of my effort on each band and the success rate.

Will be looking to improving 20 Meter band QSO's.

OH! Does anyone know for sure whether the SST-20 should have a 15 uH or 36 uH for RFC-5???

Are there any on-line latest schematics out there? I did read all the SST-MODS file after a web search, but no schematic with any updates.

Thanks in advance. ONLY 53 QSO's to go in AR Millenium TEST!  
72/Ed we6w

--

-72/Ed WE6W; AR Millennium Q's=> 1943/2000 A-1 OP  
<http://www.qsl.net/we6w> Santa Rosa, CA  
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

-----  
Date: Fri, 5 Nov 1999 10:21:23 -0900  
From: Bruce Hopkins - KL7H <kl7h@arrl.net>  
To: brian\_jones@uk.ibm.com  
Cc: qrp-l@lehigh.edu  
Subject: [55286] HELP: QRP-L CD ROM

Message-ID: <v03007800b448dc3a1f3c@[208.161.166.203]>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi Brian & Gang...

Here is a suggestion to help justify that new CD-ROM Burner... If your wife is into music as mine is, just volunteer to transfer her old records and tapes to CD... With the burner and an inexpensive label program you can turn out a real nice product... I don't even have to buy my own CD blanks... When Tosh sees my stock getting low she replenishes it on her next trip to town...

If you can't find a source locally, let me know and I can burn you a copy... It's truly a treasure trove... Thanks Chuck...

Take care and have fun...

72 / 73 / oo's - Bruce - KL7H  
Fairbanks, Alaska

"Alaska QRP Club" - Web Site: <http://home.gci.net/~bhopskins/akqrp>  
or: <http://www.qsl.net/kl7aqc>  
- 10 Meter Beacon: 28.282.28+/- KL7AQC / BCN

-----  
Date: Fri, 05 Nov 1999 14:30:51 -0500  
From: Mike Manship <mjmanship@iquest.net>  
To: mel@euramcom.freemove.co.uk, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55287] Re: HB:1v challenge  
Message-ID: <3.0.2.32.19991105143051.00733188@pop.iquest.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>If you can get a rig working at this sort of voltage level, what about a  
>long wire feeding into a hi-efficiency xtal set, doesn't need to be  
>tuned as you are only looking for big hootie freebie volts, and a voltage  
>doubler circuit rectifying the signal from the broadcast bands! Then you  
>only need a good field strength on an AM station to run your rig?

There was an article in a recent QST (no, not the April issue) that used a crystal radio as a battery charger.



73 de Mike W9OJ

-----  
Date: Fri, 5 Nov 1999 15:02:19 -0500  
From: "Ken Hanks" <ken.hanks@po.state.ct.us>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55288] Re: Adjustable power QRP rigs?  
Message-ID: <005101bf27c8\$cc084620\$1c103ccc@acer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have an Emtech NW20. The power is adjustable from a trim pot inside. I drilled a hole in the cabinet and connected a knob and shaft to the trimmer.

Adjustable from 0 to 7 watts with a 13.8VDC supply.

73,

Ken Hanks K1XS  
Naugatuck, CT

-----  
Date: Fri, 5 Nov 1999 14:05:41 -0600 (CST)  
From: Adrian Weiss <aweiss@usd.edu>  
To: qrp-1@lehigh.edu  
Subject: [55289] RE: WARNING -- another 30m posting  
Message-ID: <Pine.SOL.4.03.9911051359290.14899-1000000@sunburst.usd.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi gang:

Boy, sometimes 30m is like an enchanted magicalal forest.  
Thurs. afternoon it was blanketed with two layers of EU  
signals! Unbelievalbe. Nataurally, I called many and worked  
just 2. :(

BUT, in the wee hours of insomnia, first PJ2/PA0VDV at 0431

and, better yet, OA5/F9IE at 0449! Wow! THENNN, 6 hours later,  
I haul in the mail and flip thru and notice this kind of beat-up  
tan postcard -- flipped it over and !!!!! 5H3RK !!! QSL!!!  
I worked him Sep. 9, but he was so down in the mud it was  
difficult copying him. He was great -- asked for a repeat on  
my call three times. It seemed that the last time he had  
gotten it finally (i.e., W0RSP instead of W2RSP)but, he dipped into the  
mud after "cfm cmf w....." so I wasn't sure. Being the honest  
guy that I am, I reluctantly could not put him in the log because  
I was not absolutely sure.

As a result, I've worn out two set of paddle contacts (or it seems so!)  
calling him most nights since. then the QSL!

Wow! 3 new countries in 6 hours -- the stuff of fairy tales!

72, Ade

-----  
Date: Fri, 05 Nov 1999 12:06:50 PST  
From: "Bruce Prior" <n7rr@hotmail.com>  
To: qrp-l@Lehigh.EDU  
Subject: [55290] Sweepstakes Software  
Message-ID: <19991105200650.58900.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

QRPers --

I've misplaced the reference to downloadable software for  
Sweepstakes. Can anybody help out? Please reply direct. Thanks.

72, Bruce Prior N7RR in Blaine, WA -- one of the Mangy Musers  
n7rr@arrl.net

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Fri, 5 Nov 1999 13:30:26 -0700  
From: "Carl Zmola" <zmola@campbellsci.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55291] Re: Adjustable power QRP rigs?  
Message-ID: <19991105202826599.AAA227@carl-zmola>  
MIME-Version: 1.0

Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> Jim Hale wrote:  
> >  
> > I was asked what QRP radios, & kits are adjustable on  
> > the outside of the rig?  
> >

How about Non QRP rigs that can be turned to 1W, and can be variably  
adjusted between 1 and 5W .

I'm pretty sure the sgc2020 can (but it started life as a QRP rig).

How about some of the oldies ft101e. Most newer radios can't drop  
down below 5w. (at least without mods) According to their spec sheets.

Carl

Carl  
zmola@campbellsci.com

-----  
Date: Fri, 05 Nov 1999 13:29:32 -0700  
From: Bruce Kizerian <kizerian@ced.utah.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [55292] Re: ELMER100:"Free" ElmeRadio  
Message-ID: <38233E2C.AACFCDB0@ced.utah.edu>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I am getting some excellent input on the definitions. Most  
have commented that coming up with brief definitions is not  
as simple as it would seem at first look.

I know there are many more of you out there with the ability  
to come up with some good definitions. Help! With flashly  
printed and laminated labels, double-sided PCB, red and blue  
knobs, etc., these little radio kits are cool. Assembly  
instructions are in color and printed 1:1. Lead prep is  
simple. Hold the component up to the illustration, bend as  
shown, and clip the leads to the length shown.

Designing this kit has been a challenge, but a lot of fun,  
too. Kids love these radios.

Many of you have helped already. A bit more help on the definitions and I will post (somewhere) all the info. Please help! I'm having a serious case of writer's block.

Bruce kk7zz

-----  
Date: Fri, 05 Nov 1999 12:07:59 -0700  
From: tom whalen <wb5qyt@eFortress.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55293] Adj. Pwr Out  
Message-ID: <38232B0F.50B6@eFortress.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

I installed an outboard pwr pot on both my SST and NC-20 with no problems. Understand sometimes RF can do strange things with this mod,so use short connecting wires.

It's nice to be able to do some milliwattting when band conditions are good.

Everyone have a nice weekend and don't forget the Sweepstakes contest this weekend. I hope to get some time to play!

72, Tom WB5QYT..."Have spud will travel!"

-----  
Date: Fri, 05 Nov 1999 12:39:53 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: "Larsen, Jim" <JLarsen@alascom.att.com>  
Cc: qrp-1@lehigh.edu  
Subject: [55294] Re: RFC5 mentioned. de AL7FS  
Message-ID: <38234099.11DE@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to Jim/AL7FS, I'm all set!!!

I pulled RFC-5 and was aghast it was 36 uH on the AADE/LC-IIB! But now I know that is where it

should be!

Very FB on the help, Jim. Also thanks to anyone else as well. I'm sure you'd be here too if Jim wasn't so fast :)

All my best. 72/Ed we6w

Larsen, Jim wrote:

>  
> From: <http://www.karoo.co.uk/g3ycc/sst1.html>  
>  
> 37. Subject: SST not a toy!/SST mods summarized...  
> From: pmeier  
> Date: Sun, 29 Jun 97 11:19:11 -0400  
>

<snip and edit>

> I found only one minor mistake and  
> that was the value given for the choke RFC5 on the schematic. It was  
> listed as 15uh but is closer to about 34uh. Follow the parts list and  
> use 10 turns for RFC5.

--

-72/Ed WE6W; AR Millennium Q's=> 1943/2000 A-1 OP  
<http://www.qsl.net/we6w> Santa Rosa, CA  
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

-----  
Date: Fri, 05 Nov 1999 15:47:51 -0800  
From: JPD <jdanter@mail.i-america.net>  
To: qrp-l@Lehigh.EDU  
Subject: [55295] Re: Solder wick info  
Message-ID: <38236CA7.4BDC@mail.i-america.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to the group for the wick flux technique.

Here is another tip to add to your arsenal.

When removing defective components, ADD solder to the joint(s), prior to using the solder wick or vacuum puller. This will improve the heat transfer on the solder joints. I use the above method when servicing commercial radios.

Helps to avoid removing the "Via" on multilayer boards,  
and minimizes damage to the pads. Repeat as necessary.

72 KF4VOP

JP Danter

-----  
Date: Fri, 05 Nov 1999 21:06:42 +0000  
From: "Mel Evans, Registered Arachne User" <mel@euramcom.freemove.co.uk>  
To: qrp-1@lehigh.edu  
Subject: [55296] HB:1v Challenge  
Message-ID: <E11jqeB-0003Iw-00.1999-11-05-21-11-48@mail23.svr.pol.co.uk>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Hi again Gangue,

Yes, ok so it has been done. Maybe a charger circuit feeding the 1.5 v  
cell. Don't bother smoothing it or anything, 'cos the dirty dc into the  
dry battery will effectively re-charge it quite well, after all this is  
one of the principles of the various charger units supposedly suitable  
for dry batteries.

Oh well, just another zany idea, like sticking a couple of nails into a  
lemon, or a potato?

Regards

Mel

Visit <http://www.santamail.freemove.co.uk> to send a note to Santa

Arachne, the Internet Suite and "QRP" Browser for DOS, supports tables,  
graphics, animations, forms, HTML 4.0 Transitional Pages and more!

<http://www.arachne4dos.freemove.co.uk>

e-mail to: gm6jag@arrl.net  
or: mel@euramcom.freemove.co.uk

72 & 73 de Mel

GM6JAG

Edinburgh Scotland UK

Home of the last HW9

-----  
Date: Fri, 05 Nov 1999 13:38:23 -0800  
From: Ed Loranger <we6w@qsl.net>  
To: qrp-1@lehigh.edu  
Subject: [55297] Baluns/matching toroids etc.  
Message-ID: <38234E4F.6CC0@qsl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

There was mention sometime this week of stripline coils and their use in compact designs.

Buried in the darker recesses of my memory I knew I had read an excellent expose on broadband matching using many methods of balun winding including stripline coils. Not to mention many of the TV Antenna, 300:75 matching transformers I've opened of the years had such coils.

I draw your attention to a Motorola publication found in many engineering departments, hallways etc. of people working in the field: The Motorola, "RF Application Reports".

Specifically Application Note 749, "AN749".

Very complete and only 9 pages total in length.

An outstanding practical application of this newly acquired knowledge is contained in AN779, "Low-Distortion 1.6 to 30 MHz SSB Driver Designs." More pictorials and of course, you design the 20 Watt HF SSB linear. Includes PC board patterns.

I'm sorry I'm so warped that I read these things for fun!

Enjoy.

Motorola Sales and applications assistance 800 Numbers is in the book at: 1-800-521-6274

That's 1995, hope it is good.

72/Ed we6w

--

-72/Ed WE6W; AR Millennium Q's=> 1943/2000 A-1 OP

http://www.qsl.net/we6w Santa Rosa, CA  
QRP-Z#106 AR#112 HI-QRP#64 ARCI#9397 ARS#275 QRP-L#1068 Old NC#2227

-----  
Date: Fri, 05 Nov 1999 16:52:51 -0500  
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [55298] Re: Baluns/matching toroids etc.  
Message-ID: <382351B3.EBA8B1D5@rit.edu>  
MIME-version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7BIT

Ed Loranger wrote:

>  
> There was mention sometime this week of stripline  
> coils and their use in compact designs.  
>  
> Buried in the darker recesses of my memory I knew  
> I had read an excellent expose on broadband matching  
> using many methods of balun winding including stripline  
> coils. Not to mention many of the TV Antenna, 300:75  
> matching transformers I've opened of the years had  
> such coils.  
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> in many engineering departments, hallways etc. of people  
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>  
> Specifically Application Note 749, "AN749".  
>  
> Very complete and only 9 pages total in length.  
>  
> An outstanding practical application of this newly  
> acquired knowledge is contained in AN779, "Low-Distortion  
> 1.6 to 30 MHz SSB Driver Designs." More pictorials and  
> of course, you design the 20 Watt HF SSB linear. Includes  
> PC board patterns.  
>  
> I'm sorry I'm so warped that I read these things for fun!  
>  
> Enjoy.  
>  
> Motorola Sales and applications assistance 800 Numbers is  
> in the book at: 1-800-521-6274

Ed,



For people with access to an incoming fax machine, then can request that these documents (and many other excellent references) be faxed to them.

Go to  
<http://www.motorola.com/SPS/WIRELESS/documentation/rfifappnotes.html> and select the desired app notes. (This is Motorola's list of RF and IF application notes.) Write down the number of the notes you want (AN749 and AN779 in this case), then click the X in the MFAX column. Fill out the form, and your documents will arrive shortly.

If you really want to score a coup, get an older (mid to late 80's vintage) Motorola RF Devices databook. some of those app notes are almost construction articles in their own right!

Dave

--

Dave Hinerman WD8CIV  
Ontario, NY Grid FN13IF  
dlh1009@rit.edu

-----  
Date: Fri, 5 Nov 1999 16:42:37 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: mel@euramcom.freemove.co.uk  
Cc: qrp-1@lehigh.edu  
Subject: [55299] Re: HB:1v challenge  
Message-ID: <199911052123.QAA26074@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

> If you can get a rig working at this sort of voltage level, what about a  
> long wire feeding into a hi-efficiency xtal set, doesn't need to be  
>  
> Duuuuh! If it's this easy, why hasn't anyone done it already?  
>  
Mel,

You can get voltage, but not at much current. Since the 1 watt transmitter draws 3 amps at 1.5 volts and the Direct conversion receiver draws 60 ma at 1.5V, ain't going to power it by stealing power out of the air!

You can self power a simple crystal radio with a low power 1 or 2 stage audio amp, and maybe help charge a battery, like that QST

article someone mentioned. But it would take a long time to charge, unless you were lucky (or unlucky) enough to live next to a 50 KW AM station.

72,  
Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Fri, 5 Nov 1999 14:27:40 -0800  
From: "K7FD" <cqdx@teleport.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55300] SS Precedence  
Message-ID: <19991105222122.27540.qmail@relay1.teleport.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Are precedence letters U, M, and S new this year? I don't recall hearing them in last year's SS...

72 John K7FD, "Q" in this years CW SS...

-----  
Date: Fri, 5 Nov 1999 15:13:12 -0700  
From: "Dick Schneider" <dschneider2@uswest.net>  
To: "cqclist" <cqclist@cqc.org>, "QRP-L" <qrp-l@Lehigh.edu>  
Subject: [55301] MYSTERY OF THE DAY: The "Confidential" Antenna  
Message-ID: <000501bf27da\$fa9fa0d8@dnvr.uswest.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

OK, for all you antenna sleuthhounds out there:

I am in possession of the following antenna, and would love to know what it is:

Here are all the clues:

DESCRIPTION--0-40 feet: Open wire twin lead, solid copper separated about 1-inch with clear plastic molded separators roughly 6 inches apart. At 0-feet, the wires are each terminated with 2 inches of braid (like a ground strap) and a round terminal connector. 40-115 feet: a single braid (like the

ground strap). No terminal at 115 feet. At 40 feet -- the junction of the twin lead and the braid -- the two copper wires are joined and connected to the single braid.

MARKINGS: On each molded twin-lead separator: "TV WIRE PROD." On the corrugated paper box, in black stencil lettering: "ANTENNA & REEL, 5666-IH-B1-1-7, 1 EA, AF33 (600) 28726" Also on the box, stamped in several spots, "CONFIDENTIAL." On the reel, "OUTSIDE, FREQ CODE NO 7"

Best three answers might just make a future "Hammin' on the Go" column in CQC's "The Low Down." - of course, along with a field test on the "Confidential" Antenna.

72 Dick AB0CD..

-----  
Date: Fri, 5 Nov 1999 17:49:48 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [55302] HB: 1 V Challenge  
Message-ID: <199911052230.RAA12341@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Hi Gang, me again.

I tried using IRF510's in the amp this morning and they also work. One set in push pull produces 500 mw, four produced just under 1W.

However, due to thier very high gate capacitance, it might be difficult to make them work on 40M or higher. Also, four IRF510's take up more room than eight 2N7000's. But then the IRF510's are avavilable from Radio Shack, so somewhat easier to get for some people than the 2N7000's.

I just tried using 2SC2078's, a common CB final amp transistor. Also in push pull. Dismal results, only 50 mw at best. Might be able to do a little better, but not going to try. Bumped the supply up to 3V and they put out 500 mw, a bit more reasonable. They get hot, unlike the mosfets, so effieecency must also be a lot less too.

All in all, myself and others have concluded that while it is

possible to make a rig run on 1.5V, 3V is a lot more practical. Or  
2.2 volts from a couple of NiCd's in series.

72,

Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Fri, 5 Nov 1999 15:21:55 -0700  
From: "Francis Callahan" <colcal@srv.net>  
To: <sjolin@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55303] Re: Adjustable power QRP rigs?  
Message-ID: <199911052233.PAA07405@srv.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Icom 706 MK11 can be reduced to approx 3 watts from outside 72 Cal KF7ET

-----  
> From: Dave Sjolin <sjolin@swbell.net>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Subject: Re: Adjustable power QRP rigs?  
> Date: Friday, November 05, 1999 11:53 AM  
>  
> Jim Hale wrote:  
> >  
> > I was asked what QRP radios, & kits are adjustable on  
> > the outside of the rig?  
> >  
> > I think the OHR 100A is one, my QRP+ is another.  
> >  
> > How about others? I might add a webpage about this.  
>  
> K2  
> TS-940s (well its what I use) :-)  
>  
> 73 de Dave, N0IT

-----  
Date: Fri, 5 Nov 1999 15:01:18 -0800 (PST)  
From: Monte Stark <ku7y@dri.edu>  
To: K7FD <cqdx@teleport.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55304] Re: SS Precedence  
Message-ID: <Pine.GS0.4.10.9911051500390.23958-100000@rotor.dri.edu>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 5 Nov 1999, K7FD wrote:

> Are precedence letters U, M, and S new this year? I don't  
> recall hearing them in last year's SS...

Yep!

Be sure any software you use has been upgraded to handle  
them.

Hope to cu there.....

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

-----  
Date: Fri, 5 Nov 1999 18:02:21 -0500  
From: "William Penhallegon" <w4stx@gte.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55305] Re: Adjustable power QRP rigs?  
Message-ID: <005901bf27e1\$e2f69940\$f8c0173f@pavilion>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> Jim Hale wrote:  
> >  
> > I was asked what QRP radios, & kits are adjustable on  
> > the outside of the rig?  
> >

My OHR 400 and TS-140S (not originallyQrp) are adjustable from the outside  
of the rig.

Bill Penhallegon    W4STX

-----  
Date: Fri, 05 Nov 1999 18:09:15 -0500  
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>  
To: qrp-1@lehigh.edu  
Subject: [55306] Re: HB:1v Challenge  
Message-ID: <3823639B.66F8@arrl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Two items, AL7FS QSP'ed me some specs on the 2N1303 PNP Germanium transistor.

Also, I had only two takers for freebies, so either you two guys can get greedy and ask for more or others can stop being shy. :-)

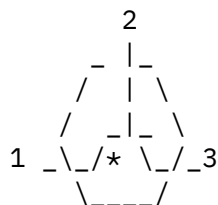
73,  
Ed Hare, W1RFI

>From RCA Corporation of America, Semiconductor & Materials Division  
(4/62)  
RCA Electorn Tube Handbook HB-3, Semiconductor Section (2/57)

Germanium P-N-P Alloy-Junction Type  
For switching applications in commercial  
and military data-processing systems

Mechanical:  
Dimensions.....See Outline T0-5 in General Section

Terminal Diagram: bottom view



Lead 1-Emitter  
Lead 2 - Base, Case  
Lead 3 - Collector  
\* - arrow pointing to Base.

Switching Service

Maximum and Minimum Ratings, Absolute-Maximum Values:

COLLECTOR-TO-BASE VOLTAGE:

With emitter open.....Vcbo -30 max. volts

EMITTER-TO-BASE VOLTAGE

With collector open.....Vebo -25 max. volts

COLLECTOR CURRENT.....Ic -300 max. ma

TRANSISTOR DISSIPATION: a

At free-air temperature of

|                                 |             |        |
|---------------------------------|-------------|--------|
| 25 degrees C or below.....P     | 150 max.    | mw     |
| TEMPERATURE RANGE:              |             |        |
| Store.....Tstg                  | -65 to +100 | degr C |
| Operating (Junction).....Tj     | -65 to +85  | degr C |
| LOAD TEMPERATURE:               |             |        |
| For 10 seconds maximum b.....TL | 230 max.    | degr C |

- a see accompanying Rating Chart  
b Measured 1/16" +- 1/32" down from seating plane

#### ELECTRICAL CHARACTERISTICS

Voltages values are given with respect to base unless otherwise specified. Free-air temperature of 25 degr. C.

|                                                                                                                     | Min   | Max  |       |
|---------------------------------------------------------------------------------------------------------------------|-------|------|-------|
| DC Base-to-Emitter Voltage for<br>dc collector ma. = -10, dc<br>base ma. = -0.5.....Vbe                             | -0.15 | -0.4 | volt  |
| DC Collector-to-Emitter Satu-<br>ration Voltage for dc col-<br>lector ma. = -10, dc base<br>ma. = -0.5.....Vce(sat) | -     | -0.2 | volt  |
| DC Collector-to-Emitter Reach-<br>Through Voltage (c).....Vrt                                                       | -25   | -    | volts |
| DC Collector-Cutoff Current for dc<br>collector volts = -25, dc<br>emitter ma. = 0.....Icbo                         | -     | -6   | ua    |
| DC Emitter-Cutoff Current for dc<br>emitter volts = -25, dc col-<br>lector ma. = 0.....Iebo                         | -     | -6   | ua    |
| Collector-to-Base Capacitance for<br>dc collector volts = -5, dc<br>emitter ma. = 0.....Cob                         | -     | 20   | pf    |
| DC Forward Current Transfer Ratio:<br>With dc collector-to-emitter volts<br>= -1, dc collector ma. = -10.....hFE    | 20    | -    |       |
| With dc collector-to-emitter volts<br>= -0.35, dc collector ma. = -200.....                                         | 10    | -    |       |
| Alpha-Cutoff Frequency for dc col-<br>lector volts = -5, dc emitter<br>ma. = 0.....fab                              | 3     | -    | Mc    |

(c) The dc collector-to-emitter (reach through) voltage is determined by connecting a high-impedance voltmeter (11 megohms or greater) between the emitter and base and measuring the collector-to-base voltage which causes the emitter to assume an emitter-to-base floating voltage of -1 volts. Care must be taken so that the maximum collector-to-base voltage (specified under Maximum Rating) is not exceeded.

## PERFORMANCE TESTS

This transistor type is tested in strict accordance with Military Specification MIL-S-19500B.

## OPERATING CONSIDERATIONS

it is recommended that this transistor not be connected into or disconnected from circuits with the power on because high transient currents may cause permanent damage to the transistor.

The flexible leads of this transistor are usually soldered to the circuit elements. Soldering of the lead may be made close to the seating plane provided care is taken to conduct excessive heat away from the lead seal. Otherwise, the heat of the soldering operation may crack the seals of the leads and damage the transistor.

This transistor is intended for use in in single-side printed-circuit boards and in conventional wire-in type circuits. If this transistor is used in double-sided printed-circuit boards or in printed-circuit boards utilizing eyelets, it may be necessary to use an insulating washer or similar standoff device made of good dielectric material to prevent the solder from shorting the leads to each other or to the board, and to prevent the base from shorting to ground.

It is noted that the case of the transistor operates at the base voltage. Because of the possibility of shock hazard when the case of this transistor is at a voltage appreciably above or below ground potential, suitable precautionary measure should be taken.

## Rating Chart

Maximum transistor dissipation -- milliwatts is 150 mW from -65C to 25C.

30C = 135 mW

40C = 110 mW

50C = 100 mW

60C = 60 mW

70C = 35 mW

85C = 0 mW

73, Jim Larsen, AL7FS      <http://www.qsl.net/al7fs/>  
Anchorage, Alaska      <mailto:al7fs@qsl.net>  
ICQ 11022915 (Info at <http://www.icq.com/> )

-----



Date: Fri, 5 Nov 1999 15:09:12 -0800 (PST)  
From: Monte Stark <ku7y@dri.edu>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55307] Re: Adjustable power QRP rigs?  
Message-ID: <Pine.GS0.4.10.9911051508190.23958-100000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 5 Nov 1999, Carl Zmola wrote:

> How about Non QRP rigs that can be turned to 1W, and can be variably  
> adjusted between 1 and 5W .

My FT1000MP goes down to the mW range from the front panel.

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

-----

Date: Fri, 5 Nov 1999 18:14:44 -0500  
From: "Nick Yokanovich" <n0ny@toad.net>  
To: <KKanalz@excel.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [55308] Re: Adjustable power QRP rigs?  
Message-ID: <005f01bf27e3\$8cea7ba0\$206e96d1@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Century/22, HW-8, SG-2020, QRP+ here all adjustable on exterior.  
Nick K3NY Arnold, MD

-----

Date: Fri, 05 Nov 1999 18:18:16 -0500  
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>  
To: qrp-l@lehigh.edu  
Subject: [55309] W1AW in SS  
Message-ID: <382365B7.6F50@arrl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well, folks, I just found out that Dan Henderson, N1ND, is going to be operating W1AW in the A class for the SS this weekend, so no W1AW/QRP (this time). Fair is fair, though; we all had a shot at it (W1RFI worked W1AW last weekend. :-)) last week, so I guess I gotta' give in.

Do work him, though; I asked him to be on the lookout for QRP stations. (And he knows if he doesn't work enough Q stations, either his Lab Favors are over forever, or he has to drink Lab coffee!)

And, please, spend some time in the SS in the Q class, even if only an hour or two and SEND IN THE LOGS! I would love to see an all time Q class entry. Now, Dan is the ARRL Contest Branch Manager, so if HE hears all these Q entries, it will make an impression. (Even if it doesn't, he has Lab Favors on the line, and that WILL get his attention.) ARRL uses the number of entries in contests to gauge various activity levels and interests. Let's show 'em that QRP is a force to be reckoned with!

Tell ya' what; if y'all get on even a bit for the SS, and send in your logs, I will go ask the QST editor to put in a QRP column sometime before the Lab freezes over. :-)

73,  
Ed Hare, W1RFI

-----  
Date: Fri, 5 Nov 1999 18:18:55 -0500  
From: "John J. McDonough" <jjmcd@tm.net>  
To: <brian\_jones@uk.ibm.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55310] Re: QRP-L CD Rom  
Message-ID: <003001bf27e4\$2713d0a0\$010044c0@conor-mac-nessa>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Volume 3 of the QRP-L CD isn't too far off!

And did I hear Brian volunteer for the UK distribution?

72/73 de WB8RCR      <http://www.qsl.net/wb8rcr/>  
didileydadidah      QRP-L #1446 Code Warriors #35

-----Original Message-----

From: brian\_jones@uk.ibm.com <brian\_jones@uk.ibm.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Friday, November 05, 1999 10:57 AM  
Subject: QRP-L CD Rom

>  
>

>Wow - been a busy time at work and been too busy to read QRP-L for the last  
>couple of months :-(

-----  
Date: Fri, 5 Nov 1999 15:34:15 -0800 (PST)  
From: "David D. Meacham" <ddm@datatamers.com>  
To: Ed Loranger <we6w@qsl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55311] Re: Sprints and Lessons to learn/ SST-20 Query.  
Message-ID: <Pine.LNX.3.96.991105153030.2112C-100000@dt1.datatamers.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ed,  
My mod for RFC5 was to change to 5 turns on 20m (see my article "Optimized  
20-meter SST" in the Fall 1997 QRPp, page 10...the index on the front  
cover has an error in my callsign...it's not W6EMT).  
72, Dave, W6EMD

-----  
Date: Fri, 5 Nov 1999 15:42:34 -0800 (PST)  
From: "David D. Meacham" <ddm@datatamers.com>  
To: we6w@qsl.net  
Cc: qrp-l@Lehigh.EDU  
Subject: [55312] Oops, Typo.. Sprints and Lessons to learn/ SST-20 Query  
Message-ID: <Pine.LNX.3.96.991105153824.2112D-100000@dt1.datatamers.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ed,  
Sorry, but I hit the wrong key the first time. RFC5 should be 6 turns.  
72, Dave, W6EMD

-----  
Date: Fri, 5 Nov 1999 15:42:50 -0800 (PST)  
From: Monte Stark <ku7y@dri.edu>  
To: "Ed Hare, W1RFI" <w1rfi@arrl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [55313] CONTESTS: Re: W1AW in SS  
Message-ID: <Pine.GSO.4.10.9911051535570.24544-100000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ed and All,

Dan Henderson, N1ND is the fellow that came in and got the ARRL contest program back into high gear awhile back. I have exchanged much email with him and he seems like a very nice fellow.

Please be sure to work him! FLOOD him with Q stations! If you only get on and work ONE station, make it W1AW!

And while you are at the rig, you might as well work at least two stations by finding and working me too! :-)

You can also listen for K5F0 and work him too. If you can't remember his new call, that's OK.....I'll remind you of what it is right after the contest!

Ahhhhh, I'm gonna go BBQ a nice steak.....staying away from the carb's before the contest and need to get used to eating steak..... :-)

AND SEND IN YOUR LOGS!

cul,

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@dri.edu....Washoe Lake, Nevada....NRA LIFE....

-----  
Date: Fri, 5 Nov 1999 18:44:21 -0500

From: "Alan Slusher" <aslusher@erols.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55314] Re: Adjustable power QRP rigs?  
Message-ID: <000f01bf27e7\$b02979a0\$3171accf@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

On Fri, 5 Nov 1999, Carl Zmola wrote:

> How about Non QRP rigs that can be turned to 1W, and can be variably  
> adjusted between 1 and 5W .

and Ron Stark responded:

My FT1000MP goes down to the mW range from the front panel.

-----  
In my shack, the Ten-Tecs 546 (Omni-D), 561 (Corsair II), 540 (Triton IV),  
509 (Argonaut) all crank down smoothly from the front panel. So, too, does  
the Kenwood TS-430S. The Kenwood TS-140S also (nominally) has the  
capability, but so far I have been unable to get the output level where I  
want it using the front-panel slider without causing major difficulties  
with the XYL on account of the series of %\$#@!\*&\$+ (can't seem to avoid  
using that \$ more than once) which inevitably accompany the attempt.

Alan W3/ V31FA  
Rockville, MD

-----  
Date: Fri, 5 Nov 1999 15:49:44 -0800  
From: "NA6E" <mcherry@calweb.com>  
To: <ku7y@dri.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [55315] RE: CONTESTS: Re: W1AW in SS  
Message-ID: <NDBBKOCKMLENMENHNPHHCEOMCEAA.mcherry@calweb.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have to agree with Ron about everyone working Dan Henderson as W1AW this  
weekend.

And Ron seems to be a little bold regarding K7Q0 since he's already up at his mountain retreat. Both Chuck and I are looking forward to the steak dinners Ron will be providing :-)

\*\* 73 \*\*

Mary, NA6E ....Sacramento, CA

-----  
Date: Fri, 05 Nov 1999 15:55:02 -0800  
From: neil <neil@aade.com>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [55316] Art of Electronics  
Message-ID: <38236E56.EE342DAE@aade.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The Art of Electronics  
by Paul Horowitz, Winfield Hill second edition

I was going to list this on ebay but would rather have someone on this list give it a good home.  
\$50 plus shipping (heavy so book rate would be best)  
\$65 on amazon.com

condition is new.

--  
Neil  
<http://www.aade.com>  
<mailto:neil@aade.com>  
Almost All Digital Electronics  
1412 Elm St. SE  
Auburn, WA 98092  
253-351-9316

-----  
End of QRP-L Digest 1630

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